SINCE 1947

FAIR RADIO SALES CO.

WORLD'S FINEST

ELECTRONIC SURPLUS

GOVERNMENT AND COMMERCIAL

MANY ITEMS AT SPECIAL SALE PRICES!

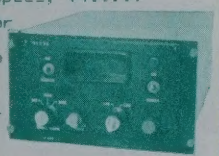
CATALOG WS-85

SURVEILLANCE RECEIVERS

G175F SURVEILLANCE RECEIVER, 30-260 MHz AM-FM-CW in bands 30-90 and 60-260 MHz; IF's 0.455-2.5-21.4 MHz for bandwidths 10-40-300 KHz. Sensitivity 1 uv (AM), 2 uv (FM) min. @ 10 KHz bandwidth. Also controls BFO, AF-RF Gain, Squelch, CORS Sens, Fine Tune. Nuvistors 13/7587, 6/6CW4, 2/7077; some transistors. Requires 115 VAC 60 Hz; 24 VDC for lights. Nc further info; 4x18.3x17.5, 27 lbs. Used-operational/not to specs, $325.00

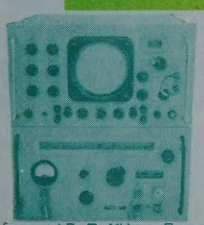
* * * * * * * * * * * * * * * * * * * *

G166C RECEIVER, companion to G175F except 235-1000 MHz AM-FM-CW in bands 235-500 and 460-1000 MHz; 40 and 300 KHz bandwidth. Used-operational/not to specs, $400.00



G186B SPECTRUM DISPLAY for receivers having 500 KHz IF's; sweepwidths 5-20-50 KHz. Center Freq-control varies +10 KHz. Variable gain; full height deflection with 10 uv input. Linear or log response. Nuvistors 6/7587, 4/6CW4; xsistors 2/2N335, 3XP2 1"x3" CRT. Requires 115 VAC 60 Hz; 5.3x9x16, 17 lbs sh. Used-reparable, $99.50

SPECTRUM ANALYZER

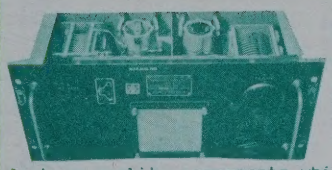


TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 MHz to 44.88 GHz in eight bands; 5" 5ADP7 CRT display. Resolution at 3 db points: 20 KHz over range. Dispersion: 500 KHz-5 MHz adjustable (10-55 MHz); 500 KHz-25 MHz (55 MHz and up). Spectrum calibrator 160 MHz center fre +12.5 MHz. Sensitivity as low as -63 db (10-150 MHz); 40 db (2.0 GHz up.) RF attenuation 100 db uncalibrated internal 10 MHz to 12.4 GHz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17.3x19x26; 180 lbs sh, 145 lbs net. Used-reparable, $425. $265. TRANSIT CASE, 75 lbs, $15 w/set purchase. MANUAL, partial reproduction, $15.00

* *

ACCESSORY KIT including five bandpass filters for segments of 0.75-11.8 GHZ range, three variable attenuators and three coax-to-waveguide adapters for 12.4-44.88 GHz, and transit case; 95 lbs, $85.00 w/set purchase.

3 TO 4.5 MHZ TUNER



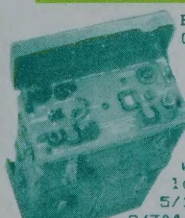
TU-6 TUNING UNIT covered 3 to 4.5 MHz band for the reknowned WW-II BC-191/BC-375 100 W transmitters. These tuners feature quality components which are difficult to find nowadays such as 19-116 pf, 15-77 pf, and 8-26 pf variable capacitors each with 0.06" spacing (see page 28), 2.5" dia vernier dial (p 27), 6-position ceramic RF tap switch (p 11), and right angle drive (p 26). Also grid, tank, and antenna coils, brown mica capacitors, nice aluminum chassis, etc. 7.5x17x9, 15 lbs. Gov't-recond, $18.95

HIGH VOLTAGE SUPPLIES

HIGH VOLTAGE DC - DC CONVERTERS originally a CRT HV supply module; use in HV experiments or in bug zappers. #ULC-14-07C, input 5-15 VDC 100; output 4.5 to 13.5 KV. Also 135-402 V and 70-93 VDC. Potted; PTK mfg. 3.2x4.2x1.4, 3#, NEW $9.95

#82-10841-01, input 10-20 VDC 100-300 ma produces output of 10-20 KVDC; aux outputs of 64-135 V and 35-39 V. Greater current output than above supply; components accessible-not potted. 5.3x5.3x1.8, 2#; NEW $12.95

BC-1000 TRANSCEIVERS



BC-1000 BACKPACK TRANSCEIVER, WW-2 vintage unit operated in 40 to 48 MHz FM range in forty-one 200 KHz steps. Power output: 300 mw RF and 200 mw AF. Built-in 43 MHz crystal calibrator. Uses AN-130 whip antenna which is no longer available. Tubes 1A3, 5/1L4, 1R5, 3/1S5, 6/1T4, 2/3A4. Requires 4.5 VDC 500 ma and 90 VDC 25 ma. CS-128 battery box included. Units have Italian markings; may need refinished. 5x11x17, 20 lbs. Used $50. MANUAL, original SCR-300 or AN/VRC-3, $7.50 H-23 HANDSET, same as TS-15, used, $10.00

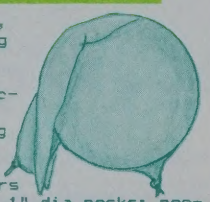
MICROCOMPUTER SUPPLY

POWER SYSTEMS MICROCOMPUTER SWITCHING POWER SUPPLY, made for one the "bigs" in the micro circus who quit the "show"; outputs +5 V 7 amp, +12 V 3 amp, -12 V 250 ma, -5 V 300 ma from 115/230 VAC 50/60 Hz input. Made in 1984 so is the very latest design for your micro or other project. 7.8x4.4x1.5, 2 lbs. #PS1558 NEW $29.95 2/$55

ULTRASONIC DEVICE

RT-1161/FSS-9 ULTRASONIC MOTION DETECTOR MODULE with two MK-109C ultrasonic transmitter/receiver elements; part of military intrusion alert system for room surveillance. Two transistor amplifier (no other electronics). Elements respond at about 27 Khz; approx 4250 ohm impedance, no DC continuity. In 18x3.5x2.3 steel case; 5 lbs. Used $14.95

7' WEATHER BALLOON



ML-541/UM WEATHER BALLOON, 7' dia streamline sounding type designed for rapid 1700 ft/minute ascent to carry meteorological equipment to upper atmosphere. 2.5 kg free lift; bursting altitude 75000 ft. (Specs based upon hydrogen fill. Use of helium or air alters performance.) Two 4.5"L x 1" dia necks; neoprene, 5 lbs sh. Unused, $14.95; 2/$25.00

VACUUM VARIABLES

VACUUM VARIABLE CAPACITOR ASSEMBLY with Jennings UCSL-1000-5 vacuum variable rated 10-1000 pf 5 KV max; includes 21-28 VDC motor drive and mount bracket. 7.5x4x3.1, 5 lbs sh. #VVA-1000-5, used, $85.

UCSL-300-7.5 VACUUM VARIABLE 9-300 pf 7500 V max; shaft with gear. Used, $75. With 24 VDC drive, $85.

UCSL-300-7.5, unused, $99.95

UCSF-250-10, 5-250 pf 10 KV max., used, $85.

UCS-375-10, 10-375 pf 10 KV max., used, $100.

JCS-250-10, fixed 250 pf 10 KV, used, $25.

ORDERING INFORMATION SEE PAGE 2

MINIMUM ORDER $5.00

Fair Radio Sales Co.

P.O. Box 1105 - - 1016 E. Eureka St.

Lima, Ohio 45802

419/223-2196

419/227-6573

CATALOG INFORMATION

This IS the only catalog we will issue this year.

A supplement will be sent in the Fall.

FAIR RADIO SALES CO., INC.

1016 E. EUREKA, BOX 1105, LIMA, OHIO 45802
TELEPHONE: AREA CODE 419 227-6573

STORE HOURS
9 A.M. to 5:30 P.M.
MONDAY THRU FRIDAY
9 A.M. TO 1 P.M. SATURDAY

TERMS

PRICES NET, F.O.B. LIMA, OHIO SEND MONEY ORDER, CERTIFIED CHECK, VISA, or MASTERCARD with PURCHASE ORDER for IMMEDIATE SERVICE.

We reserve the right to hold an order accompanied by personal or company check until after check clears the banks.

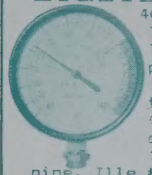
MINIMUM ORDER $5.00
PLUS SHIPPING CHARGES

Include sufficient money for shipping charges. (UNUSED PAYMENTS RETURNED AT ONCE.) Otherwise we will send shipping charges collect.

C.O.D. ORDERS, SEND 50% of PURCHASE with ORDER. CASH BALANCE will be COLLECTED UPON DELIVERY.

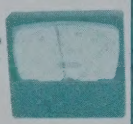
When writing for information PLEASE state what specific information you desire.

LIQUID TEMP



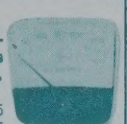
40 -140 F WATER TEMP-METER, 3.8" dia; expanded scale. 15" capillary threads into 0.6" or 0.7" orifice; also 18" capillary pipe. Ille #21223, $9.95

25-50 V



DUAL LITE 25-50 VDC Hi-Lo scale set; 4"x4.3". Model 461C; Unused $12.95

CALBIOCHEM meters, FS=50 UA 2-3/8" square. Used, $4.95 #200037, 0-150 -350% GLUCOSE scale. #200039, 0-.3% BLOOD ALCHL. #200056, 4-24% HEMOGLOBIN



DC AMMETERS by Mercer Electronics, 3⅛x3⅛; fits in 2¼" dia hole. FS=50 MV; NEW. 0-300 ADC $7.95 0-800 ADC $7.95

0-50 KV DC & 0-20 VDC scale FS=1 MA DC; 4⅛x4 blk face. Mercer Elec mfg. NEW #MER-50KV-20V, ~~$5.95~~ $4.95

WESTON 1941

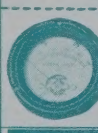
or Triplett equivalent: 4.3"x4.8" made f/Western Electric. Mount 2.8"d hole: Used $10 ea

Specify scale: 0-20 VDC, 0-300 VDC, 0-5 ADC (FS=5 A) FS=50 MV: 0-50 amps DC, 0-300 ADC 0-500 ADC

CLEAR PLASTIC METERS, 2-3/8" sq. fit 2-1/8" dia. hole. EMI mfg. Unused. #D1145-2, 0-5-50 MADC, FS-5 madc, $4.95

#D3630, 0-3 VDC, $4.95

MICROMHOS DYNAMIC MUTUAL CONDUCTANCE USED IN I-177 TUBE CHECKER BASIC 0-1.4 MA. HICKOK #M547A STK# 3F1350 $4.95



TV-2 REPLACEMENT METER, 0-250 SCREEN VOLTS, FS=1 MA. 2½" RD. SEALED. NEW $5.95

DECIBELS

-20-0 and -15-0-+5 DB 3.5" dia blk face; FS=100 ua, $6

-12-0-8+ DB 100 UA=FS 3½"RD BLK. RUGG. WAC4586 N $7.95

-12-0-+8 DB, FS=100 ua, 3½" rd. blk. face. Used, $5.95

-6-0-+3 DB, FS=200 ua 2.5" rd sealed; used, $4.95

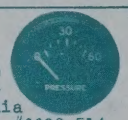
OTHER VALUES IN STOCK, WRITE

POWER SET +6 TO 0 TO-3 2½" RD. FS-200 UA, WACLINE 1496/400 RUGG/SEAL U $3.95

WESTON 431

4.3"Hx4"W industrial quality meters. Used: 0-30 VDC $8.95 0-50 ADC $12.95 0-150 ADC (FS=50 mv), $7.95

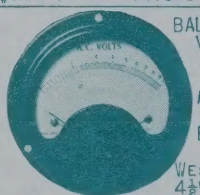
47-84 METER ASSORTMENT, five U.S. mfg meters 2½"-3½"-up; mixed odd scales, FS-100 ua and up--no choice $10/asst



PRESSURE METER 0-30-60 in increments of 10; electrical type as used in military vehicles. 2¼" dia O.D. green rim; #6620-514-4662, unused, $5.95 ea

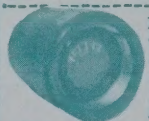
BATTERY CHARGE, FS=10 amps redline 6 A; 2½" rd, Benwood-Linze mfg. Unused, $4.

ROENTGENS PER HOUR METER 50 MICROAMPERE D.C FULL SCALE 3½" RUGGEDIZED REMOVEABLE PLASTIC LENSE, BLACK FACE. TOP SCALE 0-500, LOWER 0-10 #300-10764 UNUSED $3.95



BALLENTINE V.T.V.M. METER ONLY AC VOLTS 1-10 DECIBELS 0-20 WESTON 643 4½" OR EQ. MFG. PT. NO. 205007 NEW STK#6625-557-0899 $8.95

VACUUM GAUGE 0-30" vacuum scale (0-10-15-20 not graduated); 2-1/8" dia Marshalltown mfg #EC-324, NEW, $4.50

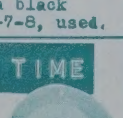


ME-68/PRC-14 0-200 UA meter consists of 1½" dia meter in rubberized housing w/U-77 plug on rear. Meter easily removed. 3x1⅝ dia; NEW $5.

Other SMALL METERS, 1½" sq sealed types; used, $6 ea: #20UA10 0-20 ua FS-200 ua. #6719 -20-0-+20 ua FS=1 ma. #M/618S, 0-10 scale FS=2 MA white face; used.

#BA/T195, FS-25 ma, 0-500 scale; black face, used. #ME/GRC, FS-1 ma black face; p/o RT66-7-8, used.

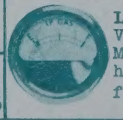
RUNNING TIME



GENERAL TIME 2⅝" rd running time meters; 6 places to .1 NEW $14.95 each:

#MU30019, 220 VAC 50 Hz
#HH30220, 120 VAC 50 Hz

#RTM-WRT 5-PLACE METER, 3½" rd; 115 VAC 60 Hz. Various mfg., used, $9.95



LP-GAS METER, 0-1 VDC full scale. Mounts in 2" dia. hole. Chrome finish #48560-2, $1.50 ea.

DESCRIPTIONS

ALL MATERIAL OFFERED IN THIS CATALOG IS IN "USED-COMPLETE" CONDITION, UNLESS QUALIFIED AND/OR NOTED AS "RECONDITIONED," "UNUSED," OR "NEW."

MERCHANDISE IS NOT OPERATIONALLY CHECKED UNLESS SPECIFIED AS "CHECKED."

EQUIPMENT DESCRIBED AS "REPARABLE"--MEANING "ABLE TO BE REPAIRED"--IS ELECTRO-MECHANICALLY COMPLETE, BUT REQUIRES SOME TROUBLESHOOTING BY THE CUSTOMER.

AC VOLTMETERS

0-2 VAC 2½" dia; Simpson Model 125, used, $4.95

0-8 VAC, 3½" rd; various manufacturers, used $6.95

0-10 VAC 2½" rd. $4.95
3½" rd or sq $5.95 var.mfg.

0-30 VAC 400 Hz 3½" rd; Weston 476, unused, $5.95

30-150 VAC 60 Hz, various mfg: 2½" rd., used, $6.95

0-300 VAC, 2½" rd, used $6.

0-100 VAC, 3½" rd., Hickok Model 47M, used, $5.95

0-15 VAC, 3½" rd., various mfg., used, $5.95

0-150 VAC, 1½" sq clear plastic; Pace mfg. NEW $7.

AC AMMETERS

0-125% AC AMMETER, FS=1 ACA 3.5" dia sealed; used $8.95

0-125 ACA FS=5 A for 400 Hz; 3½" rd. Hickok $9.95

AC CURRENT TRANSFORMER 200: 2.5 amps 5 VA 400 Hz; 1.3x 3.3" dia. #3947, $2.95

0-100 AMPS DC

FS=50 mv, zero adjust; 2.5" high X 2.9" W. WESTON 1921, NEW, $8.95

D.C. MILLIAMPS

FS=1 MADC, 0-1.0-50 scale, 3½" rd clear case; Used $5.

0-3 MA-DC, 3½" rd. sealed. #4081, unused, $6.95

0-15 DC MA, 3½" rd sealed; various mfg. Used, $5.95

0-100DCMA 100MA. MOVE. 3½"RD.RUGG. #4265 N $6.95

0-150 DCMA SC. USED 3½" RD. STD.CAY22061 $5.95

0-200 DCMA SC. 2½" RD.USED #MR25200DCMA $3.95

0-200 ma dc, 3½" rd, various mfg. Used, $5.95

0-20 MA-DC, 3½" rd. Various mfg. Used, $5.50 Unused $7.

0-500 ma dc 3½" sq, bent pointer tip; used $4.95

0-300 MA DC, 3½" rd, clear plastic case. Used $5.95

1-0-1 MADC, 2½" rd sealed; various mfg., used, $5.95

0-50 MADC, 3½" rd., various mfg., used, $6.95

100-0-100 MA DC, 3½" rd Weston 301; Used, $5.95

D.C. MICROAMPS.

0-200 UADC, 3½" rd, various mfg; used, $5.95

0-200 UADC and -8-0-+6 DB, 2½" rd. sealed, new, $4.95

0-500 UADC, 2½" rd sealed; various mfg. Used, $4.95

0-100 UADC, 2½" rd sealed; various mfg. Used, $4.95

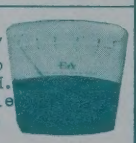
FS=20 UA DC, 0-2 ma indicated; 3½" rd, $6.95

50 UA MOVEMENT, SCALE -30, 0, 150, POINTER AT ZERO, SEALED, 2½RD USED TRC30150 $4

0-5-10-20 Peak Volts, FS-500 ua; 2½" rd Weston 1021 sealed. Used, $4.50

FS=50 UA DC, 0-50 ua & 250 ma scale; 3½" sq. NEW $7.

CLEAR PLASTIC FS=100 UA METER with non-linear SWR and 0-20 W scales; 2-3/8" sq face f/2"dia hole. #SWR-020, NEW $4.95



FAN-SHAPED METERS, plastic w/ zero adj. 3" top 2⅜" bottom; 3" H. Fits 2" dia. hole EMI mfg. Unused.

#EMI-5VDC, 0-5 VDC, $5.95
#EMI-25VAC, 0-25-250 VAC scale, FS-25 VAC, $5.95

JEWELL MODEL 73T METERS, 3⅛x3 for 2½" dia hole-NEW 0-15 VDC $7. 0-20 VDC scale, FS=50 mv, $6.95 0-200 ADC, FS=50 mv, $7.95

200 AMP DC SHUNT for 50 mv meter movements; 6x1⅛, 1 lb GE#200A-50MV, NEW, $8.00

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JEWELL 73T 0-200 ADC meter w/GE 200 amp shunt, $15.00

D.C. VOLTMETERS

0-100 VDC, 3½" rd clear plastic case; used, $5.95

0-15-600 VDC, 2½" rd black face; w/mult. code-Used $6.

0-2 VDC 2½" sq, Simpson mfg for TMC; used, $5.95

0-3 VDC 2.5" sq DeJur sealed type. #2588 unused $5.95

7.5-15 VDC, 3.5" rd clear plastic; Weston. Used $7.95

0-30 VDC, 3.5" round clear plastic; Weston. Used $7.95

0-750 VDC, 3½" sq Simpson; used, $5.95

0-200 VDC, 3½" rd. sealed; various mfg. Used, $6.95

0-300 VDC, 2½" round; various mfg. Unused $5.95

0-500VDC sc. 3" sq. #231-1624 USED $5.95

100-200 VDC Hi-Lo range set Westn 1093 2.5" rd. Used $8

KILOVOLT DC, FS=1 MA:
0-3 KVDC, 2½" rd new $5.95
0-600-1500 2½" rd used $6.

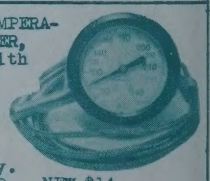
OTHER VALUES IN STOCK, WRITE

R.F. AMMETERS

0-20 RF AMMETER, 3.5" sq., Westinghouse; unused, $16.

ART-13 0-5 ANTENNA CURRENT, FS=250 ma; external transformer coil not available; 2½" rd black face. Used $5.

0-10 ANTENNA CURRENT, 2½" rd black face w/thermocouple; p/o BC-442. Used $9.95



WATER TEMPERATURE METER, 3" dia with 20-240 F expanded scale. W/6 ft copper capillary. #261-9858, NEW $14.

DC AMMETERS

0-5 AMPS DC TRIPLETT 420G 4½x4 w/zero adjust and mtg bezel. #KS19563L2, Used $12.95

WESTON 1941, 0-500 AMPS DC FS=50 mv; 4½x4, used, $12.

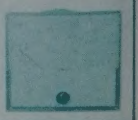
0-15 AMPS DC FULL SCALE, 2-3/8" square; 2-hole flange mount 3-3/16" across. Emico #D2877, NEW, $6.95 ~~$4.95~~

WESTERN ELECTRIC 3½" round clear plastic case; used:
0-15 ADC $10. 0-10 ADC $10

DC AMMETERS, FS=50 mv:

0-200 ADC 2½" rd NEW $6.95
0-1500 ADC 3½" rd used $7.

0-150 A/0-75 V

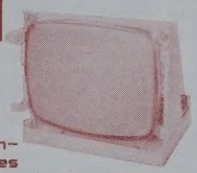


DC DUAL SCALE, 0-150 ADC/0-75 VDC FS= 50 mv; zero adjust. 2.3x2.8. #JB-15075 NEW $5.95

HOSPITAL INTERCOM BOX

INTERCOM CONTROL BOX an experimenters delight, this item was part of hospital desk-patient communications system. 8x5.6x2 aluminum box has Licon 10 amp lighted-push switches: two SP momentary 0.8" sq, one DP mom 0.8" sq and one SP mom 0.8"x1.5", a 1.6" dia 8 ohm speaker, volume control, and 7x4.5 circuit board. PC board has socketed Sigma 70R-Series 2 amp relays 2/4PDT and 1/DPDT, two Triad TY-47X 2000 ct: 16/8/4 ohm AF transformers, and socketed IC's LM324, 2/LM339, MC14001, MC14011, MC14028, MC14042, MC14585, 3/MOC319 ULN20D4; 4 lbs sh. #MID-IC-BX, used, $9.95

GREEN MONITOR



12" diag-GREEN COMPOSITE MONITOR, high quality unit with Amperex M31-334GR CRT and fiberglass PC board. Sturdy steel frame allows easy attachment of your constructed enclosure. Requires 12 VDC 2 amps; manufactured in late 1984 by Elston Electronics. O/a 10"Hx12.8"Wx11"D; 18 lbs sh. #DM-30-WDSR, NEW w/schematic, $39.95

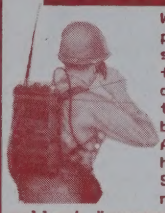
400 WATT REGULATOR

SOLID-STATE LINE REGULATOR, use to protect your valuable equipment from line variances and spikes. Input 96-132 VAC 50-60 Hz; output 115 VAC +5% 0.75 to 3.5 amps. Harmonic distortion 12% total max; circuit breaker. MIL-spec quality; 11x 6.5x11, 70 lbs sh. #102-5675, unused, $49.50

PRC-25 AC SUPPLY

C-7673/PCC-1 RECTIFIER CONTROL UNIT, intended for use with two RT-505/PRC-25 transceivers and TH-81 terminal as controller for telegraph-telephone repeater system. Also functions as 115 VAC 60 Hz or 24 VDC supply for two RT-505's. Control one or both RT-unit, power DRY BAT-BB451-OFF-VEH-115 VAC, handset connection, cables, two 3 A fuses for AC and two 5 A for DC. 2.1x9.7x6.6, 10 lbs sh. Used, $75.00

AN/PRC-10 RADIO SET



We have sold the various components of the AN/PRC-10 radio set for years but this is the first time that we have had complete sets including RT-176 transceiver, CY-744 battery box, AT-271-272-272A antennas, AB-129 antenna base, H-33F/PT handset, CW-216 canvas bag, ST-120A/M-1945 backpack harness, and manuals and in excellent "government-reconditioned" condition. Set operates over 38 to 54.9 MHz FM and has 0.9 watt transmitter output continuously tunable. Has controls for Volume, Tune, Squelch, Pointer Adjust, and Dial Lock; with tubes 9/5678, 2/5672,3/5676, 1AD4, and 5A6. Size of RT-176/CY-744: 3x9.5x20, 22 lbs sh. AN/PRC-10 Set, gov't-reconditioned, $99.50 RT-176 only, gov't-reconditioned, $40.00

BA-279 BATTERY f/above, 3/79 date code; non-rechargable, 7 lbs. $7.95 ea, 2/$15, 12/$72.

PRC-8-9-10 TEST SET

AN/URM-113 RADIO TEST SET, consists of TS-997 and accessories; designed to align and test modules of backpack transceivers AN/PRC-8-8A-9-9A-10-10A. Modules AM-427-427A, TF-132, or TF-204 from the radio under test simply plug into TS-997 and 3.5" round meter indicates the "quality" of the respective modules. Also checks crystal frequencies 4.26, 4.3, and 4.34 MHz. Operator info incld: 8.6x13x9.7. 23 lbs. Unused, $40.

LS-166 SPEAKER

LS-166 SPEAKER housed in cast-aluminum case with cable and U-77 audio plug for use with RT-70/AM-65 and similar family GRC/VRC radio equipment. 4" dia speaker has heavy-duty PM magnet; also 600:8 ohm audio transformer and Hi-Lo switch. 5x5x3.3, 5 lbs. Used, $12.00

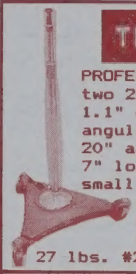
SPEED CONTROL

WALL MOUNT SPEED CONTROL, solid-state unit designed to adjust speed of Miami-Carey ceiling fans is rated 120 V 60 Hz 3 amps. Use to vary speed of any motor of similar rating. Includes aluminum mounting plate for standard outlets, hardware, and wiring info. 1 lb sh. #MSCW/KIT, NEW, $5.95

PLASTIC CASH DRAWER

RUGGED PLASTIC CASH DRAWER with keylock; a good item for the small business man or flea marketeer who wants to better organize and protect his or her receipts. Brown slide-out drawer has black removable tray with 13 compartments for currency, coins, checks, receipts, etc., adjustable dividers, and five spring-loaded currency retainers. Handsome texured black case has reinforced top. 5x19x21.8, 18 lbs sh. #PL-CD-685, NEW, $59.50

TELESCOPING STAND

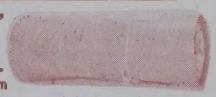


PROFESSIONAL QUALITY TELESCOPING STAND two 20" long chromed sections; bottom 1.1" dia, upper 0.9" dia. Steel triangular base has 2" dia casters and is 20" across caster to caster. Removable 7" long bracket can be used to mount small item such as speaker, test instrument, etc. (A third telescoping section could be added to really increase possible uses.) 27 lbs. #2020-TST, used-good $24.95; 2/$45.

OFFICE CASTER SET

OFFICE EQUIPMENT-STYLE CASTER SET, includes four 2.3" dia dual-wheeled black plastic casters with 3/8" dia threaded 1/2" long metal shaft. Two of the casters have a brake lever. Designed for copy machines but usable for similar weight equipment where "good looks" is a consideration. With hardware and instructions; 2 lbs sh. #73S1234, NEW, $8.95

HYDROGEN GENERATOR



M315B HYDROGEN GENERATOR, used to provide hydrogen for 4' balloon p/o CRT-3 Gibson Girl rescue radio. Has 1200 grams of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas. (EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) The M315B cans are dented; suitable only for the recovery of calium hydride. 11.6"x4.3" dia, 4 lbs sh. Unused-dented, $6.95 ea; 2/$12.00

INFLATION TUBES for M315B, $3.00 ea

Fair Radio Sales Co.

1016 E. EUREKA ST. P. O. BOX 1105

Lima, Ohio 45802

PHONE: 419/227-6573
419/223-2196

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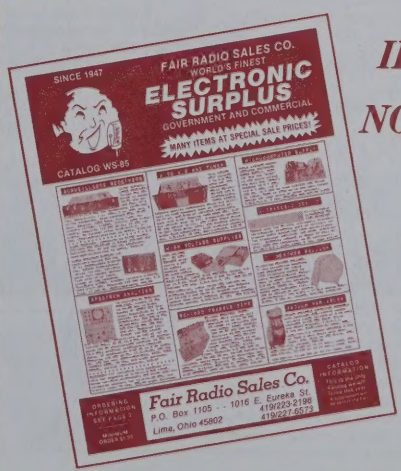
SUMMER SUPPLEMENT TO CATALOG WS-85



IF YOU HAVE NOT RECEIVED CATALOG WS-85, SEND FOR IT TODAY!

TRANSFORMERS

2250 VCT 565 MA (1750 V working) secondary output from 115/230 VAC 50-60 Hz primary input; made for Collins. 6.3x4.3x4.8, 32 lbs sh wt. #TF1UX02YY, used, $38.00

TORROIDAL-type transformers, each 4.5" dia with 115 VAC 60 Hz primaries and mounting hardware; NEW!
#5027-PS103, secondaries two 20 V 12 amp and 50 V 2.5 A. 2.5" H; 8 lbs sh. $16.95
#4365-P1S2, 2/20 V 5 A sec; 1.6"H, 4 lbs, $9.

OPEN-FRAME type with 115 VAC 60 Hz primary and secondary 32 V 3.5 amps. Ideal for small 24 VDC regulated supply project. 3.3x2.8x2.3; 4 lbs sh. #X5157308, $5.95

STANCOR #SR-448, open frame type with 115/230 VAC 60 Hz primary and 36 VCT 2 amps; 2.6x3.5x2.8, 4 lbs sh. Unused, $4.95

STANCOR #RP-2000, 115 VAC 60 Hz primary; secondary 80 VCT 2 amps and 12.6 VCT 1.5 amps. 3.5x4.2x3.8, 8 lbs sh. NEW, $7.95

UTC #C6-48C CHOKE, 75 Hy 50 ma 2200 ohms, 1750 V-test; 3.3x2.6" dia, 3 lbs. NEW $6.50

HIGH VOLTAGE

High voltage capacitors, used and unused as available:

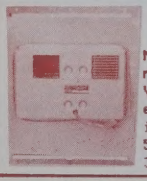
MFD		SIZE	WT	PRICE
45	1500 V storage	6x3.8x4.5	7	$12.00
8	4 KV case ground	8.3x3.5x2	9	12.50
2 x 0.5	9000 V	13.5x7.5x7	24	12.00
0.5	10000 V	7.8x6x5	12	11.50
0.65	12500 V	14x8x4	28	12.00
0.75	20000 V	16.8x16.8x4.5	45	22.00

EQUIPMENT BLOWERS

200 CFM FASCO BLOWER, 115 VAC 60 Hz 2.2 amp @ 3200 RPM; motor speed increases to compensate for any reduction of air intake. 4.5" dia inlet; outlet 3x3.3. Flange mounting 4.8x4.8; o/a 8x8x8, 9 lbs. #50755-J448, used-good $12.95

100 CFM FASCO BLOWER, 115 VAC 60 Hz 1.0 amp @ 3100 RPM. 3-7/8" dia inlet; outlet 2.5" x2.5". Flange mounting 5.1x4; o/a 7.3x7.3x6, 7 lbs sh.
#7021-0573, NEW, $14.95

RACK BLOWER



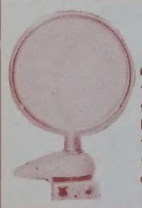
MCLEAN EQUIPMENT BLOWER RACK, rackmount assembly has dual 115 VAC 60 Hz 1.6 amp 1700 RPM blowers. Also top and bottom slide-in filters and 3-cond line cord. 5" depth behind panel; 23x19x8.3 35 lbs sh. #2NB512S41 NEW $39.50

HY-GAIN ANTENNAS

HY-GAIN MOBILE-COM ANTENNAS, new: 760-SERIES antennas include 52" whip, 2.5"H spring base, 18' RG-58 coax cable, PL-259 connector, & UG-175 reducer; 5 lbs sh. NEW, $9.95 ea:
#761 (30-33 MHz)
#762 (36-42 MHz) #767 (33-36 MHz)

280-SERIES mobile coil antenna with 52" lg whip & 2" dia loading coil:
#280 10 meters, 2-3/4"H coil $9.95
#281 15 meters, 2-3/4"H coil $9.95
#284 75/80 meters 8.5"H coil $9.95

LOOP ANTENNA



AT-382 LOOP ANTENNA for receivers in the 190-1500 KHz range such as BC-453/R-23, R-11, and R-836/ARN-59. 9" dia loop is turned manually by use of MC-215 splin and spin knob. Has BNC connection for RF. 14x9x4, 10 lbs sh. AT-382/L-10, used $14.00

SANGAMO DC SUPPLY

SANGAMO DC POWER SUPPLY, output +5 VDC 2.5 amps and ±12 VDC 250 ma from 115 VAC 60 Hz input; transformer-type. Modular-style chassis w/On-Off switch, fuse, and marked output terminals. 5.1x4.1x13.3, 9 lbs. #SANG-696515, used $15.

MODULAR SUPPLIES

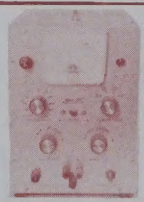
AC DC #ECV5N6-1 5 VDC 6 AMP MODULAR SUPPLY, +0.05 line and load regulation from 100/117/220/23/240 VAC 47-440 Hz input; 4.9x5.6x2.5, 5 lbs. NEW $19.95

ACME ELECTRIC 15 VDC 6.5 AMP SUPPLY, voltage adjust +0.75 V; +0.1% line and load regulation from 115/220/230 VAC 47-440 Hz input. Also remote sensing and adjustable OLP. 9x4.9x3, 8 lbs sh. #APH15-6.5, NEW, $24.95

DC REGULATOR BOARD

POWER SUPPLY REGULATOR BOARD for supplies +5/-5 regulated 3 amp and upto 24vdc unregulated. W/capacitors 2/15000 mfd 15 V, 33000 mfd 30 vdc, 2/KBPC bridge rectifiers, two 2N6576, 2/2N4441 SCR. Regulators fixed encapsulated circuit boards and replaceable. 7.75x6x4; 3 lbs sh. #MEND-REG-5V, NEW, $4.95

50V-1.5A SUPPLY



DC REGULATED POWER SUPPLY, designed output 0-50 VDC at upto 1.5 amp, indicated on 3.3x3.5 meter. Selectable volt ranges 5-10-15-20-25-30-35-40-45-50 VDC and current 50-150-500 ma and 1.5 A DC ranges; also Fine Voltage and Current Limit controls. We have been unable to make any of these work properly and so are selling them "AS-IS"--no further info. Transformer, meter, and enclosure OK. 9.8x7x10, 15 lbs. Used, AS-IS, $14.

COPPERCLAD

Prime copperclad board for making printed circuits. Phenolic (PH) or fiberglass (FIB) backed; singleside (SS) or doubleside (DS) as noted.
#PH-SS-16"x18", 0.06" thick, $2.75; 5/$10.
#FIB-DS-15"x12", 0.04" thick, $2.65; 5/$10.

8748 KEYBOARD

GENERAL INSTRUMENT S700-Series keyboard, 92 keys in qwerty format; NEC 8748 8-bit EPROM MPU and GI controller IC's. Brown keys; 3 lbs. #900239 NEW $15.

Z80A GAME BOARD

part of Bally arcade game; has Z80A CPU, 2364, 8/4027, 7416, DM81LS95 and 74-Series LS00, 2/LS02, LS04, 2/LS10, 2/LS74, LS174, 2/LS257, LS367; 14.318 MHz xtal, plus other parts. No data; 8.5x11, 2 lbs. #MI-90701-B620, NEW, $6.95

ARCADE JOYSTICK

Has 1.2" dia ball-control, four microswitches, 4"x4" steel mounting plate. Designed for heavy-duty, fast-action use. 1 lb sh wt. #IL-AR-JS, NEW, $7.95

CASES & ENCLOSURES

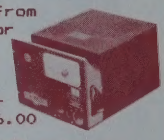
#CS/1-193 PLYWOOD CHEST w/hinged top, side handles and hasp fasteners; interior 8"H x 21.8"W x 11.5"D w/2.3"D top. O/a 11.8x23x12.8, 26 lbs sh. Used, $10.

CS/MK993 ALUMINUM EQUIPMENT CASE with hinged top and foam-padded top liner. Also hasp fastners and pressure release; removable rubber insert. 7.3"Hx20.5"Wx10"D; 10 lbs. Used $20.

#SA-1499 TERMINAL BOX, usable as 3.5x7x5 project box; has two conduit holes one end, two connectors on other. Inside 15-term 3/4" barrier strip and P&B MH230D 12 VDC sealed relay; steel, 5 lbs. Used, $2.95

#JB-416161 STEEL JUNCTION BOX, 4.1x6.1x6.1 with three knockout holes on each side for conduit. Dark gray; 5 lbs sh. NEW, $4.50

#ENC/ROMII ENCLOSURE, designed for portable test instrument; cover telescopes and slide-snaps over slant-style bottom. Top handle and rubber feet on back and bottom. Slanted section 2"D min to 3.8"D max; o/a 8x8.5x5.3, 3 lbs. Unused, $5.95



ALUMINUM ENCLOSURE and frame from antenna coupler. Adapt as-is or re-work; 7.5"H x 10"W x 10"D. Front has cut-outs for 1-3/4" sq meter and two connectors. Also removable 4.5"x2.5" insulator. 8 lbs sh. #ENC/180L, $6.00

EQUIPMENT GLIDES military quality 2"W x 18"L chassis slides have 21" travel; load rating approx 100 lbs. 6 lbs sh; #GL-1821, used, $10 per pair.

S-C SLENDERET

STROMBERG-CARLSON SLENDERET DESK PHONE with touch-tone key pad and ringer in popular almond color; FCC registered. Unfortunately these high-quality S-C phones have had their modular receptacle line jack disconnected-- but priced cheap to make it worth your while! 4 lbs sh. #SC-AD2, used-AS-IS, $9.95

MULTI-LINE TELEPHONE CABLE, 18 feet of 50-conductor PVC jacketed cable with Cinch 77-72500 blue connector on one end and terminal lugs on the other; a nice ready-made piece for those complex wiring jobs. 3 lbs; #50-TC-18, used, $7.95

ENVIORNMENTAL TEST

BLUE M Constant Temperature Control Equipment; 115 VAC 60 Hz, used-reparable:
#MW1115 Utility Oil Bath, 3.5 gal., upto +180°C; 12x7.5x7.5 work area. 65 lbs, $100.
#MW1145A-1, as above except 240°C max; $125.
#MW1162 Full Visibilty Jar Bath, upto 100°C; 12"x12" jar area. 45 lbs sh, $90.00

NEW ENGLAND OVEN & FURNACE CA650, 100°-650°F controller, 20x24x17.5 oven space; 220 VAC 60 Hz 3.5 KW, 200 lbs sh. $225.00

CHART RECORDERS We have a number of one-of-a-kind recorders available in used-reparable condition:
HONEYWELL ELECTRONIK 16, -100°to +500°F temperature; speed 4"/hr X 1-2-4-8, $200.00
ELECTRONIK 15, -50°+50°C temp; Unused $400.
HONEYWELL 1108 VISICORDER, 24 channels, 0.05"-80"/sec; w/o galvos, $395.00
GENERAL ELECTRIC RECORDING VOLTMETER CF-1, 0-140 VAC non-linear scale; portable, $75.
GE RECORDING VOLT-AMMETER 8CF7BAB9, 0-150-300-750 VAC 50/60 Hz and 0-15-30-75-150-300-750 amps AC; with transformer, $150.00

Older HONEYWELL-BROWN 153-Series recorders available under $100; send SASE for list.

RT-70/GRC TRANSCEIVER

RT-70 TRANSCEIVER, 47 to 58.4 MHz FM with 500 MW transmitter output. Continuous tuning or two preset channel selection. Receiver circuit has 15 MHz IF and 1.4 MHz final; 600 ohm audio out with variable squelch. Built-in crystal calibrator every 1 MHz. Requires 90 VDC 80 ma, 6.3 V V 360 ma, and 6.3 V 160 ma. Tubes 6/1U4, 3/1L4, 2/1R5,1AE4, 4/3Q4, 3A5, 3B4. 4.8x8x13, 22 lbs. Gov't reconditioned $37.50

AM-65/GRC AUDIO AMPLIFIER, 3-channel audio for RT-70; also functions as power supply when used with a PP-281 or PP-282 modular supply which plugs inside AM-65. 4.4x13x8, 17 lbs. Used, $14.95

PP-281 Power supply; allows 12 VDC operation of RT-70/AM-65. 6 lbs sh. Unused, $22.95
PP-282, as above but for 24 VDC; unused, $8.
CONNECTORS only to make RT-70/AM-65 interconnection; two required, used, $3.00 ea
M-29 MIC for use with above, used, $5.00
MANUALS for RT-70 or AM-65, $5.00 each.
MANUAL for AN/VRC-7 (RT-70/AM-65 system) $7.5

GRC-3--8 CONTROLS

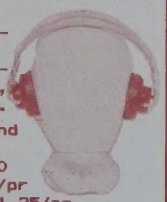
C-433 REMOTE CONTROL, used with GRC-3 thru -8 radio equipment allowing remote operation of the radio sets from up-to 2 miles away. Also allowed two-way field telephone communication when used with H-33/H-156 handsets. Has G-25 ringing generator and VP-2 bell. Uses two "D" cells (not included) for phone operation; 45 VDC required for remote radio use. 3.5x8.3x7.2, 9 lbs sh. Used, $16.00; C-433A w/G-42A, unused, $22.00

C-434 LOCAL CONTROL, similar to C-433 except used at radio site; connects to Rx-Tx audio allowing remote use by C-433 and duplex phone. 3.5x8.6x10.1, 12 lbs. Used, $20.00
MANUAL for C-433-434 (AN/GRA-6), $7.50

C-435/GRC CONTROL, plugs into MT-297 mount and allows duplex use and re-transmission of GRC-3 thru -8; functions as junction for control and audio lines of Rx-Tx and aux-Rx. Has 1.75" sq meter; no generator. 3.5x8.8x7.3, 7 lbs sh. Used, $15.

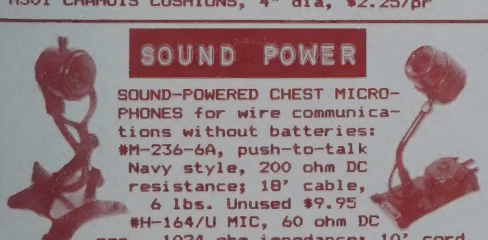
H-63 HEADSET

H-63/U HEADSET with BOOM MIC, 600 ohm phone elements and 100 ohm mic element; 14" cord. 2 lbs sh. Used, $12.00
ELEMENTS only, phone or mic, $2 ea
AN/GSA-6 CHEST GROUP, used to connect H-63 with GRC-3--8 radio equipment; includes SA-142 switch and CX-1070 cable terminating with U-77 connector. 2 lbs sh. Used, $8.00



HS-33 600 OHM HEADSET, general purpose, military-quality headset w/ANHB-1 or H-3/ARR-3 elements, HB-7 brown leather headband (not U.S. mfg.), 18" cord, & PL-354 plug; 2 lbs. Used $15.
HS-33 with gray plastic headband and 4.5' cord & plug, $15.25
CD-307 65" cord for HB-7, $2.00
MC-162 CUSHIONS, 2.5" dia, $1./pr
MX-41/AR CUSHIONS, 2.8" dia, $1.25/pr
M301 CHAMOIS CUSHIONS, 4" dia, $2.25/pr

SOUND POWER



SOUND-POWERED CHEST MICROPHONES for wire communications without batteries:
#M-236-6A, push-to-talk Navy style, 200 ohm DC resistance; 18' cable, 6 lbs. Unused $9.95
#H-164/U MIC, 60 ohm DC res., 1024 ohm impedance; 10' cord with PL-354 plug. Chest plate has JJ-26 jack for 1024 ohm headset. 3 lbs; Unused, $14.95

PORTABLE METERS

PORTABLE TEST METERS with mirrored scales; design accuracy of 0.75%. Rugged plastic case with strap handles; used:
WESTON MODEL 433, 5.1x5.3x3.3, 4 lbs., $25 ea
Scales: 0-100 MA AC 0-250-500 MA AC
0-1 AMP AC 0-5 AMP AC
WESTON MODEL 931, similar to Model 433, $22 ea
0-1.5-15-150 MA DC 0-50-250-500 MA DC
WESTINGHOUSE PX-4, 4.6x4.9x2, 3 lbs, $16 ea
0-3-150 VDC 0-10-50-500 VDC
WESTINGHOUSE PA5 (AC) or PX5 (DC), 0.5% designed accuracy; with wide scale and front cover. 7x8x4, 8 lbs sh. Used, $30 ea.
0-5 A AC 0-15-150 A DC
0-300-600 A DC

* *
Other scales/models available. Write needs!

AC CURRENT TRANSFORMERS for AC ammeters with 200 amp indicated and 5 amp full scale movements:
#IA-2005-3, 5 VA 50-125 Hz; 1.4" inner dia, 3.7" outer dia. 2 lbs sh., $7.95
#GM-10101, rated 600 V; 2" inner dia, 3.7" outer dia, 2 lbs sh., $8.95

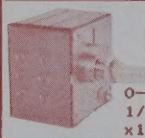
DUAL RUNNING TIME

Two ENGLER 2.9" dia 115 VAC running time meters with 5-digits + tenth hour indication, Sodeco 115 VAC 7-digit counter and three reed relays all in 3.5x8 x3.3 black metal box; 3 lbs. #2RTM-CB, used, good-condition $17.95

DAVEN 30-STEP POT

DAVEN 100K ohm STEP POTENTIOMETER 58 db and "off" in thirty 2 DB steps; 2.1"x2.3" dia plus 0.9"x 0.25" dia shaft, 2 lbs sh wt.
#CP-730-T, unused, $14.95

100K ATTENUATOR



100K 2-DECK ATTENUATOR, 0-100K in 10K steps; has 1.3"L x 1/4" dia shaft and is in 1.5x1.5 x1.2 box. ALPS #220359, NEW, $2.95

3-WAY FOOT SWITCH

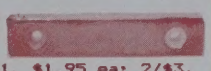
WOLLENSACK DELUXE 3-WAY FOOT CONTROL, large "play" pedal switch has two smaller bar-type switches for "rewind" and "fast forward". Switches are each rated 15 amp 115/230 VAC or 0.5/0.25 A 115/230 VDC; 6 foot four-conductor cord included. 1.5x7x5.5, 2 lbs sh wt. #FSW-A0548, NEW, $8.95

ROTARY STEPPER

ROTARY STEPPING SWITCH, 115 VAC 60 Hz ratchet-type that can be modified to take upto seventeen contacts w/electric reset. 4.2x3.2x2.5, 2#. #SS-109216, NEW, $4.95

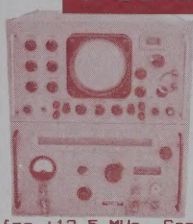
INSULATORS

STRAIN INSULATOR, brown porcelain 2.1"H x 2.3" dia with 0.7" dia center hole; #STI-2123D, $.65 ea; 4/$2.



SPREADER INSULATOR, brown porcelain 8.5"Lx1.8"Hx1"D reinforced 0.5" dia hole on ends; 3 lbs. #SPI-85181, $1.95 ea; 2/$3.
SPREADER INSULATOR, brown porcelain 14"L x 1.3"Wx1"D w/0.4" dia reinforced hole each end; 3 lbs. #361100-192, $2.75 ea; 2/$4.50

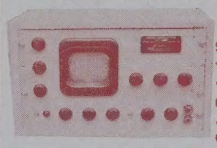
SPECTRUM ANALYZER



TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 MHz to 44.88 GHz in eight bands; 5" 5ADP7 CRT display. Resolution at 3 db points: 20 KHz over range. Dispersion: 500 KHz-5 MHz adjustable (10-55 MHz); 500 KHz-25 MHz (55 MHz and up). Spectrum calibrator 160 MHz center fre +12.5 MHz. Sensitivity as low as -63 db (10-150 MHz); 40 db (2.0 GHz up.) RF attenuation 100 db uncalibrated internal 10 MHz to 12.4 GHz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17.3x19x26; 180 lbs sh, 145 lbs net. Used-reparable, ~~$425.~~ $265. TRANSIT CASE, 75 lbs, $15 w/set purchase. MANUAL, partial reproduction, $15.00

* *
ACCESSORY KIT including five bandpass filters for segments of 0.75-11.8 GHZ range, three variable attenuators and three coax-to-waveguide adapters for 12.4-44.88 GHz, transit case and manual, $85.00 w/set purchase.

PANORAMIC INDICATOR



IP-173 PANORAMIC SPECTRUM INDICATOR, similar to Singer SB-8T. Designed to scan and analyze RF signals to identify signal level, frequency, and modulation. Can be used to determine correct deviation ratio of FM transmitters. Usable upto 1000 MHz; displays upto 1000 KHz spectrum width. Center freq: 5 MHz. Bandpass: 4.5 to 5.5 MHz. IF transformers tuned to 1.5 MHz; FM oscillator mean freq. 6.5 MHz. Input imped: 50 ohms. Direct sensitivity: 100 uv for 1/4" deflection on CRT at 5 MHz. Sawtooth sweep; rate 1 Hz (non-synched), 5, 30, and 25 to 35 Hz variable. Has 5UP7 CRT. Requires 2/6.3 VAC, 265 VDC, and -1870 VDC. 12.3x22.5x20.5, 68 lbs. Used-reparable, $75.

IP-173, as above but less cabinet, $60.00
IP-173 with 115 VAC 60 Hz power supply and interconnecting cable; 100 lbs, used, $100.
MANUAL for IP-173, partial repro, $10.00
CONSTANT VOLTAGE TRANSFORMER for IP-173 system, 95-130 VAC 60 Hz input for constant 115 VAC out; 15 lbs. #SOLA/IP-173, $25.00

AUDIO TEST GENERATOR

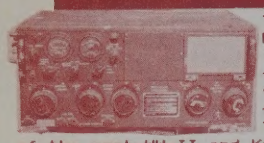
HEWLETT-PACKARD 205AG AUDIO SIGNAL GENERATOR, has two voltmeters to measure input and output of unit under test plus 0-40 db in 5 db step input attenuator and 0-110 db in 1 db steps. Response: 20 Hz-20 KHz; output 5 watts max into selectable 50, 200, 600 or 5K ohm loads. Requires 115/230 VAC 50-1000 Hz. 12.8x20.8 x15.5, 63 lbs. Used-reparable w/book, $125.

HEWLETT-PACKARD 200CDR WIDE RANGE OSCILLATOR, rack-mount unit covers 5 Hz to 600 KHz in five decade ranges; +2% designed accuracy. Input impedance 600 ohms. Requires 115/230 VAC 50-1000 Hz. 7x19x14.5; 26 lbs sh. Used-reparable, ~~$85.00~~ $69.50

800-2100 MHZ GENERATOR

HP-614A UHF SIGNAL GENERATOR, 800-2100 MHz CW, FM or pulsed in single band. Attenuator range: 0 - -127 db (0.223 V to 0.1 uv); output 0.5 mw into 50 ohms. Internal pulse modulation 40-4K per sec variable repetition rate; length 1-10 usec, delay 3-300 usec. Requires 115/230 VAC 50-1000 Hz. 13.6x17.3 x13.5; 70 lbs sh. Used-reparable, $250.00

ART-13 TRANSMITTER



T-47/ART-13 HF TRANSMITTER, famous 2 to 18 MHz 100 watt AM-CW-MCW set which was the next "step-up" from the Command Set Transmitters for many of the post-WW-II and Korea radio amateurs. It is now "classic" for the collector. Can be manually tuned or autotuned for 11 preset frequencies. W/tubes 2/6V6, 12SA7, 2/12SJ7, 2/12SL7, 2/811, 813, 837, 2/1625. Requires 24 VDC 10 amps, 400 VDC 225 ma, 1250 VDC 250 ma. 23.5x16x11, 85 lbs sh. Used, $115.00

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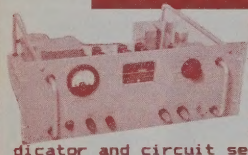
MANUAL for ART-13, partial repro, $12.00
MT-284/ART-13 mounting base for Tx, $12.00
O-16/ART-13 OSCILLATOR, plugs into ART-13 and adds 200-600 and 500-1500 KHz range; w/1625 tube. 6 lbs sh; used, $19.95
CDA-T CRYSTAL OSCILLATOR, plugs into ART-13 and converts four crystal-controlled channels to 200-500 KHz range; w/1625 and 6AQ5. 6 lbs sh. Used, less crystals, $12.95
DY-17/ART-13 24 VDC DYNAMOTOR only; filter-base not available. 28 lbs sh; Unused, $15.
CU-24/ART-13 SHUNT CAPACITOR, unused, $1.50
T-17 MICROPHONE, used, $6.95
J-37 TELEGRAPH KEY w/base & cord, used $7.95

LINEAR AMPLIFIER

AM-6154/GRT-21 LINEAR POWER AMPLIFIER (ITT Model 3211), conservatively rated for 50 watt output from 10 W exciter input over 118 to 149.95 MHz. Uses Eimac X651Z/8930 or Amperex DX393 tetrode in silver-plated cavity in removeable drawer; 175-turn tuning counter dial. Main chassis has solid-state power supply and buffer amp/multiplier; test meter on panel monitors voltages. Requires 105/120/210/240 VAC 50-400 Hz and +20 V reg 60 ma, +20 V keyed. 7x19x18.5, 80 lbs in 2 packages (UPS). Schematic pack included. Used-excellent-not tested, $209.50

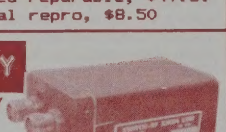
AM-6155/GRT-22 UHF POWER AMP, same as above except 225-400 MHz; Used-excellent, $159.50

ANTENNA COUPLER



CU-872 ANTENNA COUPLER, handles upto eight receivers in the 2-32 MHz range. Gain: 0 to 3 db. Noise figure: 6 db or better. Has 0-50 microammeter test indicator and circuit selector switch on front. 70 ohm input; type N connections. With tubes 20/6922, OB2. Requires 115/230 VAC 50-60 Hz. 7x19x16.5, 40 lbs sh. Used-reparable, $49.50
MANUAL for CU-872, partial repro, $8.50

TRANSFER RELAY



TRANSCO DP TRANSFER RELAY 28 VDC coil, DC-4 GHz; four TNC RF connections. Power connector included; 2x2x4.5, 1 lb sh wt. Transco #16530, used, $12.95

AS-1729 ANTENNA SET

AS-1729/VRC ANTENNA SET, consists of MX-6707 matching unit-antenna base, AS-1730, and AT-1095 fiberglas mast sections; designed to be used with RT-246-524/VRC transceivers and vehicular installations of PRC-25-77 radio sets. MX-6707 has automatic or manually tunable frequency ranges 30-33, 33-37,37-42, 42-47.5, 47.5-53, 53-56, 56-60, 60-65, 65-70.5, and 70.5-76 MHz FM; also BNC connection for RF. Bottom mast section AS-1730 is 52.5"L, upper AT-1095, 64"L; MX-6707 14.3x5.5" dia. 15 lbs; used, $49.95
MANUAL for AS-1729, partial repro, $8.50
MX-6707 MATCHING UNIT only, used, $29.95
AT-1095 MAST SECTION only, used, $12.50

LARGE GLASS TUBES

Once again we have obtained some interesting large collector and experimenter tubes. At our low prices they are not guaranteed operable.

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EIMAC 2-450A High Vacuum HV Rectifier, 30 KV peak 7.5 V 25 A fil. 13.3"H x4.3" dia; 6 lbs. $17.50

WESTERN ELECTRIC 701A UHF Pulse Tetrode; jumbo 4-pin. 7.5"Hx4" dia; 3 lbs. $12.50
EIMAC 2-450A "unused-GUARANTEED", $125.00

NUVISTORS, used-checked:
6CW4 $6 ea; 7586 $10 ea; 7587 $16 ea

CRT SALE! used in older O-scopes; 4 lbs, unused: 5BP1 ~~$12~~ $10 5CP1 ~~$15~~ $8.

ANTIQUE GLOBE TUBES,

for your pre-1930's radios while supply lasts; used-checked, $7.50 each:
24/224/324 26/226/326 27/227/327
71/171/371 841 38401/3B21
UX201A/301A $12.00 each

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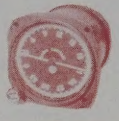
WESTERN ELECTRIC 336A Class A audio tube; 10 V fil, 250 V plate 4200 uMhos 3.5 watts. 6-pin base; ST-shape. Unused, $8.00 ea
Used-checked: WE310A $5.00 -- WE421A $8.00

203A TRIODE, 100 W Class B, 10 V 3.3 A fil; like 211/VT-4 but 25 mu. Unused, $15.00

COMPASS INDICATOR

5" dia RADIO COMPASS INDICATOR with 0-360 degree scale in 1 degree increments and AY-54 autosyn. These are compatible with the popular antenna position project outlined in the 9/79 issue of QST Mag. I-82 or similar; 4 lbs sh. #5D-RADCOM, used, $24.95

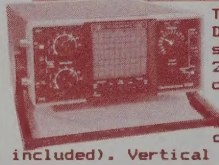
3" dia RADIO COMPASS INDICATORS, 0-360 degree scale in 2 degree increments; usable in antenna position or wind direction projects. 3 lbs sh; Unused:
#ID-637, p/o ARN-59 set, $10.95
#ID-91B, p/o ARN-6 set, $11.95



GYROSCOPE ASSEMBLY

HONEYWELL VERTICAL GYRO ASSEMBLY #JG-7044-A17, single pitch and roll gyro with 400 Hz motors, mercury switches, etc. Gimbal freedom: ±360° (outer axis, longitudinal), ±85° (inner axis, transversal). Erection rate 2°-6° min. Also 400 Hz 1 Ø motors 26 V (torque), 115 V (caging solenoid), and 115 V 21000 RPM (power motor). Pick-up pots: 30K^2 ohm ±168° (roll), 30K^2 ohm ±80° (pitch). Angular momentum: 4.75x10^6 gm cm /sec. Unit has "line of flight" monitors for normal loft or alternate O/S. 7.5x9x6; 11 lbs. Used, $25.00

PORTABLE 5 MHZ SCOPE



TELEQUIPMENT D32 PORTABLE DUAL-TRACE SCOPE, solid-state DC to 10 MHz with 2.8"L x 2.3"W display operates from 105-125/210-250 VAC or 9 VDC using six "D" size rechargeable batteries (not included). Vertical sensitivity: 0.01 to 5 V/div nine steps 1-2-5 sequence. Sweep: 0.5 usec to 0.5 sec in 19 steps 1-2-5 sequence; 250 V max input. Also X5 expander, Trigger Level, Auto/Manual, +/- Slope, Internal/Ext, and adjustable carrying handle/stand. 3.8x9 x12, 15 lbs. Used-reparable w/manual, $225.

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JENNINGS CVFB-1500-40
ceramic vacuum variable capacitor 100-1500 pf 40 KV max/24 KV min; 25 lbs. Unused $595.

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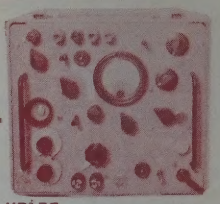
TMC GPT-1K COMPONENTS
Component units and parts for Technical Materials Corp 2-32 MHz SSB 1 KW transmitters. Write your needs and include SASE.

UNIVERSAL BRIDGE



ZM-11 TEST SET, portable bridge unit designed to measure capacitance, inductance, resistance, transformer turn ratio, dissipation factors of inductors and capacitors, and storage factors of inductors--all at 1 KHz test frequency. Also insulation and leakage of electrolytics in circuit using 10.75 MHz test frequency. Capacitance range: 10 pf-10 mf, 1 mf-100 mf, 10 mf-1100 mf. Inductance: 0.1 mH-1 H, 1 H-10 H, 10 H-110 H. Insulation DC res: 200-500 megohm, 5K-10K meg ohm. Transformer turn ratio: 0.01-110 (K=1). DC leakage: 0-1-5-25 ma. Dissipation: 0-0.06 (10 pf-0.1 mf), 0-0.6 (0.1 mf-1100 mf). Q Storage: 0.5-20. DC applied to electrolytics is 500 VDC. Uses test leads with atandard banana jacks. (Leads not available.) W/tubes 6E5, 6J6, 2/6AV6, 6AG5, 6AL5, 6AQ5, and 6X4. Requires 115 VAC 50-1000 Hz; 5.8x9x9.8, 18 lbs. Used-reparable, $85. Checked, $115.00
MANUAL for ZM-11, partial repro, $8.50

AN/URM-25D

AN/URM-25D SIGNAL GENERATOR, covers 10 KHz to 50 MHz in nine bands. Output 0-100K uv into 50 ohms. Modulation 0-50% 400 or 1000 Hz internal. One MHz crystal calibrator. Requires 115 VAC 50-1000 Hz. Set includes all accessories MX-1487 impedance adapter, SM-35 antenna simulator, CN-223 5:1 and CN-224 10:1 attenuators, BNC cable, and manual. Generator: 11.3x14x10.8, 52 lbs sh. Gov't-reconditioned w/accessories, $175.00

TV-7 TUBE TESTER

TV-7 TUBE CHECKER, portable unit tests most military and older commercial receiving and low-power transmitting tubes. Indicates dynamic mutual conductance, emissions, gas, noise, and shorts. Test sockets for octal, loctal, 4-,5-,6-,7-pin, 7- and 9-pin miniature, acorn, flat and round subminiature tube base sizes. With tube test data book. Requires 115 VAC 50-1000 Hz. 6.3x8.5x15.8, 22 lbs sh. Used-reparable, $35.00; Checked, $59.50

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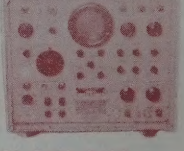
TV-7-D TUBE TESTER, more recent version of above, used-reparable, $50; Checked, $75.00
MANUAL for TV-7-A-B-D, partial repro $10.00

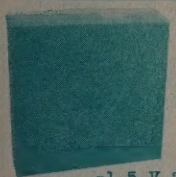
INEXPENSIVE O-SCOPE



OS-51/USM-24C SCOPE with 3" dia display CRT; vertical response flat within -3 db from 2 Hz to 6 MHz, 0.07 usec risetime. Sweep time 0.5 to 50K usec/inch continuously adjustable; variable, fixed or pulsed trigger. Trigger pulse output 25 to 50 V of 1.6 usec width occurable at 50-300-800-2000-5000 times/sec. Has markers at 0.2-1-10-100-500 usec; also 5 KHz calibrator signal 0.1 to 1 V p-p. Vertical input impedance 300K ohms shunted by 40 pf. With 29 tubes including 3JP1 CRT; requires 115 VAC 60 Hz. 14.5x17.3 x12.4, 55 lbs sh. Used-reparable, "power transformer-life not guaranteed," $34.95

MANUAL for USM-24C, partial repro, $15.00
PROBES: CG-883 10:1 attenuator, $9.00
CG-1277 cathode follower, $8.00
CG-409 BNC CABLE, 6' RG-58, $3.00 ea
COAXIAL ADAPTERS female (f), male (m):
UG-201, N (f) to BNC (m), $2.50 ea
UG-255, BNC (f) to UHF (m), $2.00 ea
UG-273, BNC (m) to UHF (f), $2.00 ea
UG-274, BNC T connector (m-f-m), $3.00 ea
UG-349, N (m) to BNC (f), $2.50 ea
UG-924, Binding post to BNC (f), $1.50 ea

BA-279 BATTERY PACK



BA-279/U BATTERY, intended to power AN/PRC-8-9-10 or Canadian PRC-509-510 backpack transceivers. However, pack can be readily dissassembled to utilize the different cell voltages for other power uses. Cell outputs: +1.5 V 675 ma (A1), -1.5 V 250 ma (A2), +67 V 25 ma (B1) +135 V 50 ma (B2), and -6 V 400 ma (C). Batteries have 2/79 dates and have been in cold storage thru 3/84; not rechargeable. 8½x8½x2¼ 7 lbs sh. Unused, $7.95 each; Case of 12, $72

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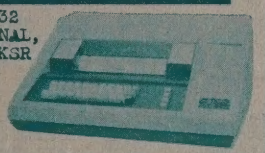
BA-4386 LONG-LIFE MAGNESIUM BATTERY for backpack radios AN/PRC-25-77; output (as supplied to PRC-25-77): 12.5 VDC 600 ma (receive), 12.5 VDC 1.4 amp and 3 VDC 400 ma (transmit) Estimated battery life: 30 hours 9:1 R/T ratio. 4/80 date code; cold storage thru 3/84. 3½x9½x2, 3 lbs. Unused, $5.95; 8/$36.

TI 732 DATA TERMINAL



TEXAS INSTRUMENTS 732 ELECTRONIC DATA TERMINAL, a Silent 700 Series KSR unit intended for TTY communication using five level baudot code, 20 ma neutral current loop. Send-receive selectable speeds of 50, 75, and 100 baud (6.67, 10, or 13.33 cps). Upper case only 37-key standard format keyboard hass 55 printable characters and five print functions Printer has solid-state printhead with 5 x 7 dot matrix heating elements; uses 8x10 thermal paper allowing for quiet operation. Provision for adapting to RS-232C interface or acoustic couplers. Requires 115 VAC 60 Hz. 6½x20½x19½, 45 lbs sh. Unused ~~$185.00~~ $135.00 THERMAL PAPER f/732, 300' roll. $11. 3/$30.

D O L L A R D A Z E

PLEASE ORDER BY NUMBER. Unit prices only as indicated. Look for more DOLLAR DAZE throughout this catalog.

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45-85 3AG 1 amp FUSES 10/$1; SLO-BLO 3AG 1 amp, 10/$1.25; In-line FUSEHOLDERS for 3AG, 5/$1

* *

41-81 LOUD BUZZER HORN as used in smoke alarms; 2" dia x1¼". 6 VDC $1.25 ea; 12 VDC $1.35 ea; 115 VAC $1.45 ea

* *

9 RECEIVER-TRANSMITTER CHASSIS, solid-state, broadcast band. $2.00

LINE CORD, 2-conductor #18 gauge as on appliances; 6 feet long, white. NEW, 3 for $1.25 **43-83**

23-77 BRASS COUPLINGS for 3/8" dia. x 3/4" long shafts. 3 for $1.00

MOBILE RADIO PLATE w/switch light, jack, 6' 10-cond. cable. Plate 3½x3½. $1.00 **25-77**

44-83 49 Mhz WALKIE-TALKIE PC BOARD, no speaker or mic; 9 VDC req. $1.50 ea, 3 for $3.

MIXED HARDWARE: screws, nuts, washers removed f/equip. Usable; 3 lbs. $1.00 **30**

42-82 RUBBER EQUIPMENT FEET 1-1/8" dia rubber with 1"L #¼x20 bolt; w/o nut. 8/$2.00

LEVEL METER, FS=150 UA, 3/8x7/8 face; o/a 1x1x⅝. $1.00 3/$2.00 **39-78**

38-79 SPEAKER, 3" dia. 8 , 1 watt. Sanpo SP024, new, $1.00

R-390A/URR HF RECEIVER

R-390A/URR RECEIVER famous military set covers 0.5 to 32 Mhz AM-CW-MCW in 31 one Mhz bands read directly on mechanical digital counter. 455 Khz final IF; has four Collins mechanical filters allowing 2-4-8-16 Khz selectable bandwidth. Calibration points every 100 Khz; also BFO, AGC, dial locks, 600 ohm audio out, Line and Carrier Level meters. Rackmount; no covers. Requires 115/230 VAC 60 Hz. 10.5x19x16.8; 95 lbs (UPS in 2 pkgs). Used-reparable, $215.00 Checked, $335.00; Manual partial repro $15.

R-390A excellent-checked (extra clean) $400.

REPLACEMENT PARTS for R-390A, removed from used equipment but guaranteed. usable. Please specify chassis part numbers when ordering.

AUDIO AMP, reparable $18. Checked, $30.
BFO Z-502 with flex coupling, $15.00
CLAMPS for gears (specify gear), $1.50 ea
COUNTER DIAL, mechanical, $15.00
CRYSTALS, 200 Khz (when available), $18.
CRYSTALS, specify frequency $10 ea; 5/$35
CAPACITOR C-603 or C-606, $2.00 ea
DIAL LOCK assembly with knob, $10.00
DIAL ZERO shaft with knob, $10.00
FILTER, BANDPASS FL-601, $10.00
FILTER, MECHANICAL, checked: 2 or 4 KHz $35
8 KHz, $27. 16 KHz, $20. SET of four, $85
GEARS, #39 or #21, $6.00 ea
GEARS, other than above, $3 ea; 5/$10.00
KNOBS, Megacycle or Kilocycle, $6.00 ea
KNOBS for RF, IF, Audio etc., $1.50 ea
KNOBS f/Ant Trim, Dial Lock, etc, $1.25 ea
POTS for RF/IF, Audio, Meter Level, $2 ea
PTO/VFO assembly (not Collins), checked $40
POWER SUPPLY less 26Z5 tubes, $30.00
PTO/VFO if Collins manufacture, $60.
RELAY, ANTENNA, $15.00
RESISTOR TUBE, RT510/3TF7, checked $10 ea
SLUGS for RF transformers, $4.00 ea
SLUG RACKS with springs, $3.00 ea
SWITCH, On/Off/Standby, $5.00
SWITCHES f/front panel except above, $3 ea
TRANSFORMER, audio output, $9.00 ea
TRANSFORMERS, RF or IF, $8.00 ea
IF AMPLIFIER DECK, checked, $150.00

Meters and complete RF decks not available.

ANTENNA WIRE & REEL

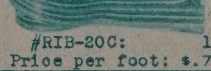
AS-207/CRT-3 WIRE & REEL ASSEMBLY, 300 ft #16 strand-braided cadmium alloy copper wire on RL-48 reel and crank; mounted to aluminum door with adjustable brake and snap swivel. Part of CRT-3 "Gibson Girl" transmitter antenna which attached to kite or balloon. 2x4.5 dia, 3 lbs. Unused-complete wire, reel, door, $9.95 Wire & reel only, $7.50; Wire only, $4.95

DATA CASSETTE

DATA CASSETTE RECORDER, adaptable for use with most microcomputers having RS-232 input. Functions: Eject, Record, Rewind, Ready, Forward, Stop, Read-from-Tape, and Written-on-Tape. Tape speed 1-7/8 ips, 4-track 2-channel. Similar to Monroe Model 392. Requires -12 -35 V. Includes 3' cable w/DB-25P plug & book. 8x5x3, 4 lbs sh. #DC-REC, unused, ~~$29.95~~ $20.

'0' GAUGE CABLE

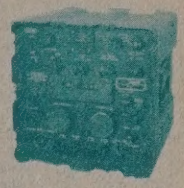
2-CONDUCTOR "0" GAUGE COPPER CABLE in PVC jacket. Use for making welder cables, jumper cables, or wind generator hook-up. Each cable 2-conductor at length indicated. #8369-25 25' $25. #8369-50 50' $42. #8369-100 100' $69.50 (Weight 1 lb/foot.)



RIBBON CABLE for computer wiring or similar jobs; 20-conductor #22 stranded wire with ten color codes.

#RIB-20C:	10'	100'	500'	1000'
Price per foot:	$.70	$.50	$.35	$.25

0.5-32 MHZ RECEIVER



R-392/URR RECEIVER, 0.5 to 32 Mhz AM-CW in 32 one Mhz bands using mechanical digital tuning. Triple conversion on lower 8 bands, double on others. Selective bandwidth 2-4-8 Khz; 100 Khz crystal calibrater points. With 25 tubes of 26A7, 26A6, 26C6, 26D6, 6AJ5, 12AU7. Requires 24-28 VDC 5 amps. Rugged vehicular version of the famous R-390 receiver. 11½x14½x11; 58 lb sh wt. Used-reparable, $135. Checked, $200.

MANUAL for R-392, partial repro, $15.00
LS-166 SPEAKER for R-392, used, $12. w/set.
115 VAC POWER SUPPLY f/R392-no connector $25.

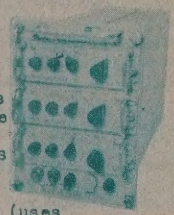
2-12 MHZ USB 100 WATTS

AN/PRC-47 RADIO SET with RT-671 transceiver as the major component covering 2 to 11.999 Mhz USB (voice and CW+800 Hz) in 1 Khz steps. power output 100 watts PEP (Hi) or 20 W PEP (Lo). FSK mode possible if used with suitable converter (not available). Collins manufactured set is transistorized except for PL-177WA tube in power amp and tubes 5907, 7761, and 7905. Has 5-place mechanical digital tuning, P-A load and tune controls, and XMTR output meter. Designed for field or vehicular use, RT671 operates from either 24 VDC 20 amps or 115 V 400 Hz. 7x21½x13½, 45 lb sh. Used-reparable, $300. W/H-33 handset, AS-1320 antenna, $320. MANUAL repro $17 w/purch.

* *

PRC-47 ACCESSORY PACK: AS-1321 15' whip antenna, LS-166 speaker, H-233 headset, J-45 key/leg-iron, CX-8396 cable, U-239 adapter, backpack harness & frame, and aluminum transit case; 95 lbs sh. $55 w/RT-671 purchase.

HF TUNED RECEIVER



R-1440/WLR-6 HF TUNED RECEIVER, solid-state unit operating over 1.5-19.0 Mhz AM-CW on 36 crystal-controlled channels; uses three plug-in band modules with 12 channels each to cover portions of the range. Each module is fully enclosed and shielded and has 12 adjustable antenna circuits, 12 adjustable RF amp circuits, crystal oscillator (uses CR-18 crystals - not available), mixer, 455 Khz IF with Clevite filter, detector, AGC, BFO; controls for BFO, RF Gain, AM/AGC-AM/Man-CW, Channel select. Mainframe which holds three modules, serves as 115 VAC 60 Hz power supply and audio amp; has Volume, Band select 600 ohm Audio jack. Band modules available:

Band 1 (1.5-3.5 Mhz) Band 2 (2.3-5.1 Mhz)
3 (3.4-7.2 Mhz) 4 (5.2-11.8 Mhz)
5 (7.9-19.0 Mhz). Our tests have found that the modules can be operated as independent receivers on 12 VDC input and with addition of an audio amp. Also sensitivity less than 1 microvolt and that modules may be tuned over broader range than specified band limits. We will ship three different modules of your choice with each mainframe; please specify your second choice. 8¾x6¼x16¾, 23 lbs sh. Used-reparable, $175.

MANUAL for R-1440, partial repro, $10 w/set.

3-LINE 3-HOLD DESK PHONE

AUTOMATIC ELECTRIC MODEL 87 3-LINE 3-HOLD TELEPHONE with rotary dial; standard desk style phone permits usage of upto three lines each with separate "hold" button. Includes handset with coil cord, 5' cable with terminal lug connections, and mounting hardware. Black only; 6 lbs sh. Unused, $27.95

BC & ARC COMMAND SETS

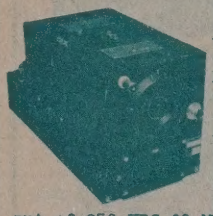
Even though they have been on the surplus market since the end of World War II, the Command Set Receivers and Transmitters are still popular with hams and experimenters.

The series consists of either SCR-274N (BC-prefix) or AN/ARC-5 receivers (R-prefix) and transmitters (T-prefix).

As a group, the receivers cover 190 Khz to 9.1 Mhz and the transmitters 2.1 to 9.1 Mhz.

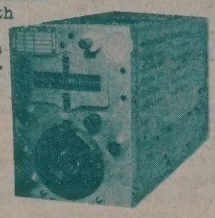
Over the years many conversions have been written for the sets. However, the last comprehensive collection of such information, CQ Surplus Conversion Handbook, went out-of-print in 1979.

If you are interested but not familiar with the Command Sets, your best source for info about them may be another ham. Schematics for any of the receivers and transmitters are available from us @ $1.50 each plus a SASE.



Command receivers are superheterodyne types which may be tuned by the use of a special spin knob or from a remote position with a control box and spline shaft. Each have six tubes: 3/12SK7, 12SR7, 12A6, and 12K8. They are designed to operate from a DM-32, a 24 V-DC dynamotor with an output of 250 VDC 60 MA and 24 volts. Shipped less dynamotor. Size: 5x5x11, 15 lbs sh.

WRITE for availabilty of other models.



Command transmitters with proper use can put out 50 watts CW and 30 watts phone. Modulation is obtained from either of two separate units, BC-456 for single tube modulation or MD-7 for push-pull. The 575-600 VDC 175-200 MA and 24 volt power requirements were originally satisfied by the 24 VDC DM-33 dynamotor which mounted on either modulator. The transmitters use a 1629 "eye" tube for tuning and crystal calibration plus tubes 2/1625 and 1626. Size: 5x7x12, 17 lbs. sh.

BC-457/T-20, 4-5.3 Mhz, reconditioned $19.95
BC-458/T-21, 5.3-7 Mhz, $19.95
BC-459/T-22, 7-9.1 Mhz, $25.; w/o dial, $21.

BC-456 MODULATOR for use with Command Transmitters; single tube modulation with tubes 1625, 12J5, 0D3. Has provision for mounting DM-33 dynamotor. 7x8x10, 11 lbs. sh. Used $12.95

PUSH-ON TUNING KNOB f/Command Receivers, $3.
MC-215 SPLINE for remote tuning, 6 ft, $1.50
DM-32 DYNAMOTOR, 25 VDC f/receivers, $4.95

FT-233/MT-7 single receiver rack, $3.00
FT-234/ single transmitter rack, $3.25
FT-227/MT-70 SHOCKMOUNT f/FT-226 rack, $2.50
C-48 TUNING CONTROL, panel style for ARC receivers 190-550 Khz; MC-215 required, $8.
C-1245 CONTROL, like C-48 but 108-135 Mhz $9.
C-37 DUAL CONTROL, 190-550 Khz and 118-148 Mhz dials for R-11/R-19 pair; unused $8.95
BC-496 DUAL CONTROL, 3-6 and 6-9 Mhz dials for BC-454/BC-455 pair; unused, $7.95
BC-450 TRIPLE CONTROL, 190-550 Khz, 3-6, and 6-9 Mhz dials for BC-453-454-455; unused $8.

R-19/ARC AIRCRAFT RECEIVER, 118 to 148 Mhz continuously tuneable. No dial; designed for remote tuning with spline shaft. IF-15 Mhz. With tubes 9002, 3/9003, 14A7, 2/14R7, 14F7, and 12A6. Uses accessories similar to ARC-5 Series. Requires 250 VDC 60 ma and 24 VDC. 6½x5x11¾; 13 lbs. sh. Used, $18.95

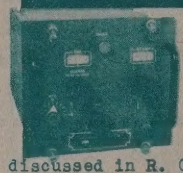
R-11A RECEIVER, 190-550 Khz. Similar to R-19 but has 85 Khz IF and tubes 2/14A7, 14S7, 14R7, 14F7, and 12A6. Used, $12.95

R-22 BROADCAST BAND RECEIVER, 550-1500 Khz. Similar to R-11. Used, $24.95

ARC-39 RECEIVER-XMITTER

RT-427/ARC-39 RECEIVER-TRANSMITTER, REPLACES COMMAND SETS; COVERS 2.0 TO 9.1 MHZ IN TWO BANDS; SIX CRYSTAL-CONTROLLED FREQUENCIES PER BAND. RF OUTPUT: 10 WATTS MIN. INTO 10 OHM LOAD (100 PF). 100% AMPLITUDE MODULATION; AUDIO OUTPUT: 200 MW WITH 1000 UV 30% MODULATED INPUT; 800 MW MAX. BANDWIDTH: 8 KHZ @ 6 DB DOWN. METER INDICATES RELATIVE RF OUTPUT TO THE ANTENNA. WITH TUBES 0B2, 2/12AT7, 4/5749, 5750, 3/5686, 4/5814, & 3/6159. POWER REQUIRED: 28 VDC 4.4 AMPS WHEN RECEIVING; 8.5 AMPS TRANSMITTING. SIZE: 7½x10½x21¾; SHPG. WT: 42 LBS. PRICE: USED, COMPLETE, $49.50
MANUAL FOR RT-427/ARC-39, REPRODUCTION, $10.

225-400 MHZ CONVERTER



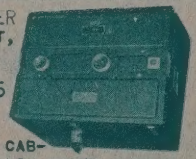
AM-914/TRC AMPLIFIER-CONVERTER, originally used with military R-417 receias plug-in for the 225-400 Mhz range. Continuous tuning of RF and oscillator; 30 Mhz I.F. Unit has conversion possibilities as discussed in R. Grove's article in 10/80 issue of CQ magazine. With tubes 5670 and 4/6J4. 7½x6½x9½, 17 lbs sh. Used, $34.95

AM-1179/GRC, 50 to 100 Mhz, $39.50
AM-913/GRC, 100 to 225 Mhz, $39.95
AM-1177/GRC, 400 to 600 Mhz, $44.50
AM-3203A/GRC, 1.35 to 1.875 Ghz, $49.50

AM-1178/GRC AMPLIFIER-MULTIPLIER, used in T-302 transmitter for 400-600 MHz FM range. 100 W out f/4X150A and 4X150G. 12x6x14, 45 lbs. Used $75.

AM-1180/GRC, 50-100 MHz, one 4X150A, $49.50
AM-2537/TRA, 790-915 & 840-925 MHz, $79.50

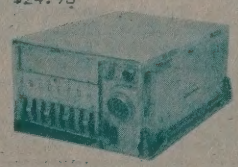
CV-1275/ARN (ARC B-18) DATA CONVERTER, solid-state unit processes VOR or localizer navigation signals; 28 VDC, 6x2½x6. Used, $30.



SCR-522 RECEIVER-TRANSMITTER AM CRYSTAL CONTROL, 30 WATT, 4 CHANNEL ON ANY FREQ. IN THE 100-156 MC RANGE. TUBES TRANS. 2/832, 6SS7, 3/12A6, 6G6 REC. 1/9002, 9003, 12C6, 12H6, 3/12SG7, 12A6 & 2/12AH7. UNITS CAN BE RE-MOVED FROM CABINET CASE SEPARATELY. REQUIRES POWER SUPPLY. SIZE: 16½x12½x10½; WT: 50 LBS. Used, $29.95
CONNECTOR PLUGS, $1.50 EA. OTHER ITEMS AVAILAB.

ARC-3 AIRCRAFT RADIO

T-67/ARC-3 TRANSMITTER, post-WW-II VHF set covers 100-156 MHz AM using 8 preset crystal-controlled channels; 8 W power output. Uses DC-11 -16-26 or CR-1 type crystals (not included). With tubes 2/832, 2/6L6, 3/6V6, 6J5, 12SH7. Requires 24 VDC and 410 VDC 325 ma. 7.5x12.3 x15.3, 24 lbs sh. Used, $24.95



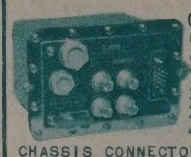
R-77/ARC-3 VHF RECEIVER, companion to T-67 and also operates on 8 preset crystal-controlled channels (not supplied.) With tubes six 6AK5, 3/12SG7, 2/12SN7, 12SH7, 12SL7, 12A6, 12H6, 9001, 9002. Requires 24 VDC and 210 VDC 210 ma. 6x11x14.3, 24 lbs sh. Used, $22.95

SCHEMATIC for T-67 or R-77, $1.50 each.
C-118/ARC-3 CONTROL BOX, for channel selection, mic, and headset jacks; $8 w/set.
C-197/ARC-3 AUDIO CONTROL, unused, $4.00
CONNECTORS for T-67 and R-77, $2.50 each.
DY-21 and DY-22 24 VDC DYNAMOTORS, -WRITE.
J-68/ARC-3 POWER JUNCTION BOX, holds dynamotors (not included); 9 lbs sh. Used. $9.95

T-363/ARC VHF TRANSMITTER, 132 to 148 MHz AM five channel crystal-controlled; operates from 24 VDC input. 5 W output; companion to R-19 receiver. 4.5x4.5x6, 6 lbs; used, $16.

R-101/ARN-6 RADIO COMPASS RECEIVER, 100-1750 KC IN FOUR BANDS WITH TUBES 6/12SK7, 4/12SX7, 2/26A7, 2/2050, 1/12SY7 & 1/12SX7. POWER REQUIRED 24-28 VDC. SIZE: 11½x7½x15½; 40 LBS Used, $45.00
Gov't reconditioned $65.

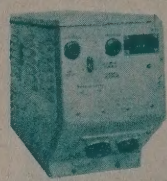
AS-313/ARN-6 LOOP ANTENNA	USED	$15.00
ID-91/ARN-6 INDICATOR 3"	NEW	$12.95
PD-5/ARA-19 TUNING DRIVE	USED	9.95
AM-2038/ARA-19 AMPLIFIER	Used,	$8.95
C-149/ARN-6 CONTROL PANEL,	USED,	$9.95
MC-124 FLEX. TUNING SHAFT 20 IN.	USED	1.50
MC-203 "T" ADAPTER	USED	1.50
MC-136 RIGHT ANGLE ADAPTER	USED	2.00



CU-308B/U ANTENNA COUPLER; USES CATHODE FOLLOWER TO COUPLE SINGLE ANTENNA WITH THREE RECEIVERS IN THE 2 TO 24 MHZ RANGE. INCLUDES THREE 24 VDC 500 OHM SPST RELAYS, 4/5906 TUBES, AND FOUR BNC CHASSIS CONNECTORS. POWER REQUIRED: 24 VDC 180 MA. 5x5½x3¾; WT: 4 LBS. UNUSED, $9.95

R-836/ARN-59 DIRECTION FINDER RECEIVER, same as Aircraft Radio Corp R-30A DF receiver used in light aircraft. Covers 190-1750 Khz in bands 190-400, 400-840, and 840-1750 Khz. Replaces AN/ARN-6 radio compass system. Can be tuned using push-on knob or remotely using C-2275 control box and MC-215 spline listed separately below. In 12.5 Khz; tubes 2/5718, 5896, 5/3654, 3/5902, 7/6072, 6112. Requires 24 VDC 1 amp, 110 VDC 90 ma, 125 VDC 20 ma; 115 VAC 400 Hz for loop selsyns if used for DF. Voltages originally supplied by DY-107 dynamotor (not available). 4½x4½x10½, 9 lbs sh. Used, $19.95
OPERATOR'S MANUAL, $3. SCHEMATIC, $2 w/set.
MC-215 SPLINE, 6', $1.50; Spin Knob, $2.00
ID-637/ARN 3" dia COMPASS INDICATOR, $8 w/set

C-2275/ARN-59 CONTROL BOX for tuning R-836 in three bands; also Tune-to-Max meter, volume control, BFO, and Loop switches. Requires 28 VDC; 3½x5¾x2¼, 2 lbs. Used $12.



T-23/ARC-5 TRANSMITTER, companion to the R-28, has 10 watt output, though can be modified for higher rating. Uses two 832 and two 1625 tubes. Audio power for modulating originally supplied by MD-7 modulator

Frequency channel selection made by separate C-30 control unit. Requires 24 VDC for relays and selector; 600 VDC 175 MA for HV. Size: 15½x8½x5½; 18 lbs. sh. Gov't. reconditioned $25.

'ANTIQUE' TRANSMITTER

RCA ET-8003 LF TELEGRAPH TRANSMITTER, "antique" unit transmits 700 Hz tone over 355-500 Khz; 30 watts output. Designed to operate from 1500 VCT 100 ma 350 Hz power input. Keying circuit is in-line with the power input so that keying makes or breaks the power circuit. The four #10 tubes are then modulated by the line frequency and produce the 700 Hz tone. Antenna coupling set by moving plug into any one of six coil tap jacks. Has two National Velvet Vernier dials, two variometers, and 0-5 RF ammeter. 21x16x11, 30 lbs sh wt. Government- reconditioned, $79.50

Original 350 HZ POWER TRANSFORMER for ET8003; primary 115 VAC 350 Hz, secondary 1500 VCT 100 ma. 10 lbs sh wt; unused, $10.00

PLEASE

PAGING HORN

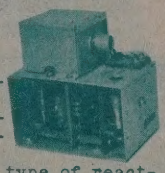
OUTDOOR PAGING HORN with sealed voice coil and 5" dia aluminum horn. Rated 15 watts 8 ohms. Includes mounting bracket. O/a 4¼" deep, 4 lbs sh. #BZL-0518, NEW, $9.95

EMERGENCY FLASHER

EMERGENCY LIGHT-FLASHER-CHARGER, plugs into car lighter with 14 feet of cable and provides bright clear flasher for emergencies or continuous lighting for repairs, map reading, etc. Also has provision for trickle charging battery from another vehicle using an additional 3 ft cable connected to its lighter circuit. Has meter which indicates approximate charge time required. 6x4x3, 4 lbs sh. #EMERG-LFC, w/cables, NEW, $5.00
LIGHTER CABLE, 14' as above, $2.50; 30" $1.

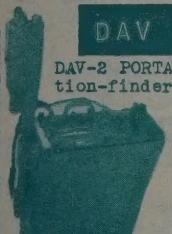
SWR INDICATOR CIRCUIT

STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1⅝" square 0-10 scale (FS=2 MA) meter with filters and rectifiers and a modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. In theory the bridge circuit is balanced when the antenna is tuned to 52 ohms resistive resulting in a zero reading on the meter. SO-239 connector. Bridge: 2⅜x2¼x1; 2 lbs. #M701/CU-991, $8.95



PHASE AND LOAD DISCRIMINATOR, could be useful in tuning an antennas system, if used in circuit with a sensitive zero-center microammeter. Phasing and loading discriminator produces ±DC voltages proportional to the reactance of a system. Phasing output shows the type of reactance (capacitive or inductive) and the loading's indicates the amplitude of impedance referenced to 52 ohms resistive. In both cases zero DC output is ideal (may not be obtained in practical circuit). A third output is proportional to relative antenna current. 2x3x3; 2 lbs. sh #T201/CU-991 w/diag., $4.95

DAV WALKIE-TALKIE



antenna not included

DAV-2 PORTABLE TRANSCEIVER with direction-finder circuit; operates on single channel between 2.3 and 4.5 Mhz @ 200 MW. Has controls for receive, transmit, and sense. Also water-tight O.D. plywood case, JK-26 phone jack, connection for T-45 mic, FT-243 crystal (no frequency choice), book, and tubes 3/3S4, 2/1T4, 1R5, and 1S5. Requires 67.5 VDC 3 ma, 135 VDC 19 ma, 6 VDC 30 ma, and 1.5 VDC 225 ma. Size: 10¼x 3⅜x10, 8 lbs sh wt. Used, $10.95
We will try to ship matched frequency pairs when two or more DAV's are ordered.

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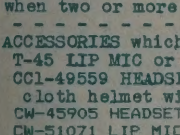
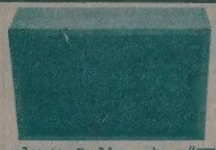
ACCESSORIES which can be used with DAV-2:
T-45 LIP MIC or T-30 THROAT MIC, used, $4.00
CC1-49559 HEADSET ASSEMBLY consisting of cloth helmet with headphones, unused, $4.95
CW-45905 HEADSET, used, $4.95
CW-51071 LIP MIC for CW-45905, unused, $3.
CC1-66081 ANTENNA, seven section 15"-85" collapsible-telescoping, $1.50 w/DAV purch.



MAB PORTABLE TRANSCEIVER CHASSIS, originally designed to operate between 2.3 and 4.5 Mhz on a single channel; 200 MW output. In waterproof black plastic case; mic and headset cut-off and not available. W/tubes 3/3S4, 2/1T4, 1R5 and 1S5. Requires 67.5 VDC 3 ma, 135 VDC 19 ma, 1.5 VDC 225 ma, 6 VDC 30 ma. Size: 8⅝x 2¾x7⅝; 8 lbs. sh. Used, with book, $6.95

SPEAKERS



BOOKSHELF SPEAKER in walnut-grained vinyl-covered 7x10¼x2¾ enclosure. Has 4" dia 16 ohm 1 W speaker and 6 foot cord with RCA plug; 2 lbs sh. #ER-WD-SPK NEW $4.50 ea 2/$6.

SPEAKER PAIR in PLASTIC ENCLOSURES, each 4" dia 16 ohm 1 W speaker in attractive 6¾x6¾x5½ enclosure with 6' cord and RCA plug. White & black plastic per pic; 4 lbs sh wt. #ER-PL-SPK-PR NEW $3.95/pr

SPEAKER WRAP for assembling 10½x20x4 walnut-grained vinyl-covered enclosure; no grill cloth. 7 lbs sh. #ER-SPK-ENC, 2/$2.00

3 X 5 SPEAKER, 2 watts with 1⅝" dia magnet. Specify 8 or 16 ohms; 1 lb. $1.35 $95/100

* * * * * * * * * * * * * * * * *

100 - 500 LOT PRICING available on all above.

HARMON-KARDON PCB

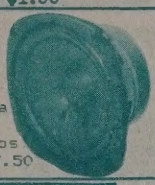
HARMON-KARDEN AUDIO COMPONENT CIRCUIT BOARDS, all new surplus with schematics:

STEREO TONE CONTROL BOARD with ganged treble, bass, volume control balance pots. Tone controls are each 2/dual 50K; volume is 4-gang 100K. Also 3/4PDT push on/push off switches, 6 transistors; -26 VDC req. #HK-0866, $5.00

POWER SUPPLY/SPEED CONTROL BOARD for record player. Consists of speed control circuit for 33/45 RPM player using 29 VDC motor (not included). Has 22 transistors w/usable lead lengths, two opto couplers (4N27). An interesting gadget board w/schematic. #HK-134450, $2.25

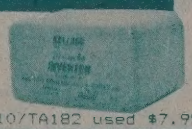
RECTIFIER-CAPACITOR CIRCUIT BOARD, has capacitors: 7/47 mf 100 V, 2/47 mf 63 V, 2/500 mf 50 V. 6x3x1¾, 1 lb. #HK-26239B, $1.50

FULL RANGE



4" DIA HIGH QUALITY 8 OHM FULL RANGE SPEAKER, heavy 3" dia x 0.9"H magnet for cone. Excellent sound; 1 lb 10 oz net, 3 lbs sh., #AST-180-040, NEW, ~~$8.95~~ $7.50

20 HZ STATIC RINGER



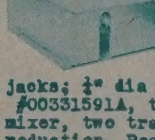
20 HZ INVERTER MODULE, used in telephone equipment to produce 20 Hz 65 volt 50 ma ringing signal from 110 VDC 65 ma input. 3.4x2x3, 2 lbs. #E10/TA182 used $7.95

PHANTOM ANTENNA

GP PHANTOM ANTENNA as used with WW-II 350-9050 Khz aircraft ransmitters to monitor RF at remote point. Has 3½" rd 0-10 RF ammeter, 10 KV 0.0002 and 0.0003 mf G2 mica xmitting capacitors, 12-nickel-plated terminal posts in 14x12x9¼ aluminum case w/hinged top; 22 lbs. Unused ~~$35~~ $28.

H-K FM TUNERS

HARMON KARDON FM TUNERS with AM capacitors (no AM component) 75 ohm antenna, and 300 ohm IF jacks; ¼" dia tune shafts. With diagram, NEW. #00331591A, two MOSFET RF stages, MOSFET mixer, two transistor oscillator; 3:1 gear reduction. Requires 13 VDC; 4¾x2x4¼. $9.95



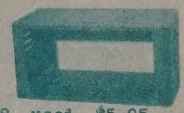
#00234339 (Alps), two MOSFET RF stages, MOSFET mixer, IC oscillator; 3-gang variable capacitor, 3:1 gear reduction. 5½x2½x3½. $7.95

#FB113U13 (Alps), one FET, two transistor oscillator; requires -12 VDC. 3½x2½x2¾. 2 lbs sh. $4.95

TRANSISTOR AUDIO AMP

TRANSISTOR AUDIO AMPLIFIER w/5-transistors, on-off-volume and tone controls. Inputs for ceramic or crystal phono cartridges. Other possible uses as home-brew receiver, intercoms, child's projects. Use with 8 or 16 ohm 3" or 4" speaker. Req 6-9 V AC or DC; with schematic. 1½x2½x3½. #ER-10-1231 NEW $2.95; 2/$5.00 -100, 500, 1K LOT QUANTITY PRICES AVAILABLE-

ENCLOSURES



STEEL CABINET with lift top for 7"Hx14"Wx8"D panel. O/a 8x16½x8½, 7 lbs. #SK-CAB7148, used, $5.95
PANEL with miscellaneous parts f/above, $1.50

#1313/60 CABINET, 13x19x13 for 12"H panel; top door, 38 lbs sh. Used-good, $14.00

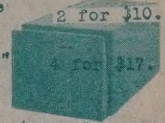
- - - - - - - - - - - - - - - - - - - -

#34-PYE CABINET, 34"Hx21.5"Wx15.5"D f/31.5"H panel; rear door. Steel; 80 lbs. Used, $22.

- - - - - - - - - - - - - - - - - - - -

CY-2126/TRC CABINET w/115 VAC 5" fan on rear; f/panel 19.3"Hx19"Wx14.5"D, 30 lbs. Used $22.

PYE/CAB CABINET, 16x19x14 space o/a 17½x21x14 blue, used $13.



2 for $10.
4 for $17.

FILE CABINET for items upto 9¾" wide X 8¼"H; o/a depth 24". Steel, O.D. green; 14 lbs. $6.

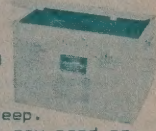
CS-618S1 CASE w/CHASSIS, 15½"Wx8"Hx23½"D (20"D behind panel). Some cut-outs on front; may be usable for antenna tuner or transmatch project. Aluminum; 20 lbs. Used $12.

CS-1060 CASE w/CHASSIS, p/o small scope; o/a 8"Wx7⅛"Hx13"D. Front has cut-out for 3"CRT; some parts on chassis. Handle on top; 10 lbs. Used, $8.95

TRANSIT CASES

TS-382 TRANSIT CASE, o/a 15x 19x15⅜; usable space without removal of spacers 10x18⅜x12¾ Not hinged; hasp fastners. Aluminum; 35 lbs. Used, $14.00

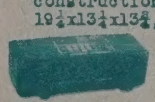
CV-425 ALUMINUM CASE with rounded corners; sturdy single compartment construction with hasp-type fastners. Interior 9.3x x10x5.8. 6 lbs sh. Used $6.00



CY-693/PDR ALUMINUM CASE, four compartments 3.5x4, 7.5x4, 1.8x4, and 13x6.5; may be removed for 13x10 size 9" deep. Hinged top with hasp fastners; may need repainting. 12 lbs sh; used, $6.00

FIBERGLASS CASE with carrying handle and six hasp fastners; lid not hinged. Lower section 13.5x8x9; cover 3.5" deep. Has fittings and rubber shocks to be removed. #FIB-SR-684 11 lbs sh; used. $7 ea; 3/$15.

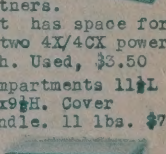
CY-3157/USM-144 TRANSIT CASE, three ply wood and aluminum construction w/hasp fastners; 19¼x13¼x13¾, 32 lbs. Used $12.



CY-1451 SPARE TUBES CASE w/hasp fastners. Removable insert has space for 7- and 9-pin mini tubes and two 4X/4CX power amp tubes. 4½x10x3⅜, 4 lbs sh. Used, $3.50

CY1091/PDR ALUMINUM CASE, compartments 11⅛L x7¼W and 2⅜Lx7¼W; o/a 14½x7⅞x9⅜H. Cover hinged w/fastners and top handle. 11 lbs. $7.

#CS-TH-14 ALUMINUM TRANSIT CASE with hasp fastners; interior 17.5x19.5x8. 22 lbs sh wt; used, $10.00

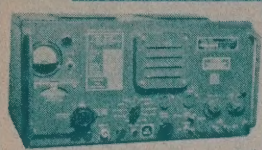


#CS-AM-708 ALUMINUM TRANSIT CASE, as above but interior 17.5x19.5x16; 40 lbs. $15.00

#CS-15x12 TRANSIT CASE, o/a 19.8"Hx19.8"W x14"D; interior usable 18x15x12 plus 3.5"H space in cover. Aluminum; 40 lbs sh, $15.00

TAKE 40% OFF
WAVE GUIDE PRICES

U,H,F, RECEIVER



R-48/TRC-8 RECEIVER F.M. 230 TO 250 MC. ONE BAND VARIABLE TUNING, VOLTAGE REQUIRED 115/230 60 CYC. WITH SPEAKER, PHONE JACK, SQUELCH CIRCUIT 2½" METER FOR CIRCUIT CHECKING. WITH TUBES 8/6AG7,1/9002,1/5U4,1/6V6,1/VR-150,1/6N7,1/6SN7,1/6AL7. SIZE: 20x19x16; WT: 75 LBS. USED $45.00

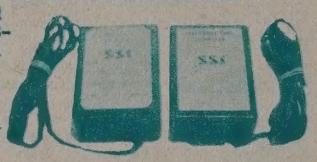
CV-89 FS CONVERTER

CV-89/URA-8 FREQUENCY SHIFT CONVERTER, audio frequency conversion type with 2BP1 CRT. Shifts 10-200 Hz @ 1 Khz center frequency; 200-1000 Hz @ 2550 c-f. Maximum keying speed: 60 wpm for single channel. Teletype output 60 ma DC loop @ 70 V. Two AF inputs, one for narrow one for wide shift; each 600 ohms ct, 60 uW to 60 mW input power. Requires 115 VAC 60 Hz. 5½x17x21, 55 lbs sh wt. Used-reparable, $85. Flanges for rackmount use, $5 additional. Manual, partial repro, $10. Power conn., $3.

R-2174 VLF RECEIVER

R-2174/URR VOLTMETER-VLF RECEIVER, Rycom frequency selective voltmeter used by gov't as 0.3 to 420 Khz AM-LSB-USB receiver. Six bands; selectable bandwidth 0.1-3-10 Khz. Built-in VTVM has full scales 0.0003 to 30 Vrms in 11 ranges, 3-10-30 sequence; -70 db to +30 db, 10 db steps. Also 135-600 ohm-Bridge unbalanced and balanced select, speaker, and phone jack. Requires 115 VAC 60 Hz; 9x19x7, 25 lbs. W/partial repro book. Reparable $125. Checked $195.

REMOTE SIGNALLER



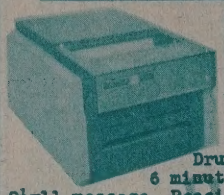
REMOTE SIGNALLER RECEIVER & TRANSMITTER, intended use was for the transmitter to be actuated by a telephone bell The transmitter would then signal the receiver via the power line and activate the receiver's outlet to which a lamp or other appliance could be connected. Maximum outlet load 200 watts. Transmitter has telephone pick-up coil, op-amp, and tone oscillator. Receiver has 567 tone decoder circuit and triac control circuit for the outlet. Each has On-Off switch, 5' cord, and measures 3x4x1½; 3 lbs sh. Schematic included, may need minor repair. #RMS-R/T, $8.95

PRD-1 DIRECTION FINDER

R-395/PRD-1 RADIO DIRECTION FINDER 100 Khz to 30 Mhz AM-CW-ICW in seven bands; FM over 12.5-30 Mhz. 34 Khz bandwidth. 100 Khz crystal calibrator for bands 1-2-3 (100-1200 Khz), 1300 Khz bands 4-5 (1.14-5.8 Mhz), and 4000 Khz bands 6-7 (5.5-30 Mhz). Has two tuned RF amplifiers using two 6AK5's. Also 7/1U4, 1R5, 2/1U5, 6C4, 3Q4, and 3A5. Designed to be used with diamond shaped AS-536 and AT-301 antenna which mounts on receiver's top. Requires 1.5, 6.3, -6, and 90 VDC. 18½x13x13¼; 64 lbs net, 75 lbs sh wt. Used, reparable, $105.00 MANUAL, partial repro, $12. Schematic only $3

AN/PRD-1 DIRECTION FINDER SET, consisting of R-395, DY-79 dynamotor, AS-536 and AT-301 antennas, MT-870 receiver tripod, transit cases CY-949-950-954, battery cable, and manual partial repro; 275 lbs. Used $175.

FACSIMILE TRANSCEIVER



STEWART-WARNER MODEL 180 DATAFAX TRANSCEIVER, facsimile machine designed to send and receive printed matter and images over telephone lines or private wire. Produces upto six shades of gray. Drum scanner speed: 180 RPM; 6 minute transmission time for 8½x11 message. Receives 1500-2500 Hz signal; 2150 Hz required to activate demodulator. Select manual or automatic operation modes. Uses 200' rolls of facsimile paper (not available). Units tested for basic send-receive; some adjustments may be necessary. Schematic & info packet included. Requires 100-127 VAC 60 Hz. 16x12x21, 70 lbs USED, ~~$175.~~ $100.

WW-II VEHICULAR RADIO

BC-620 TRANSCEIVER, part of SCR-509-510 radio set as used in World War II vehicular communications. Receives and transmits over 20-27.9 Mhz FM range on any two of 80 different crystal channels spaced 100 Khz apart. Transmitter output: 1.2 watts. Has tuning meter and tubes 1LC6, 1LH4, 4/1LN5 2/1291, 1294, 4/1299. Uses FT-241 crystal-type (not included) and requires 1.5 VDC 0.7 amp, 90 VDC 45 ma, 7.5 VDC 0.3 A, 150 VDC 45 ma. Size: 12x16⅝x21⅛, 40 lbs. Used, $59.50

CS-79 BATTERY BOX for manpack use of BC-620 or BC-659; 17 lbs sh. Used, $6.
SCR-509/510 MANUAL, partial repro, $10.
SCR-609/610 (BC-659) MANUAL, $7.50
TS-13 HANDSET, $10.00 with purchase of set.

WW-2 BACKPACK RECEIVER

BC-728 RECEIVER. WW-II portable or vehicular unit for the 2 to 6 Mhz AM range; four push-button tuned bands 2-2.6, 2.6-3.5, 3.5-4.5, and 4.5-6 Mhz. Has volume control, phone jack, and built-in speaker. Requires 2 VDC 1.85 amp input originally supplied by BB-54 battery (not available). W/tubes 3/1T4, 1R5, 1S5, 3S4, and vibrators VB-8-9. Radios part of SCR-593; reconditioned for the Italian Army. 11.5x6.3x5.5, 26 lbs sh; $49.50

AN-75 WHIP ANTENNA for BC-728 w/carrying strap; extends 12"-84", $12 w/set.
FT-338A VEHICULAR MOUNT, 8 lbs, $12 w/set.
CD-618A BATTERY CABLE, $5.00 w/set.
MANUAL for SCR-593, partial repro, $8.50.
VB-8 or VB-9 VIBRATORS for spares, $2.00 ea.

RT-5010 TRANSCEIVER

RT-5010/PRC-510 CANADIAN PORTABLE TRANSCEIVER, Canadian version of U.S. RT-176A/PRC-10A transceiver. Covers 38-54.9 Mhz FM continuously tunable. Receiver IF 4.3 Mhz; audio output 600 ohms. Transmitter power output 900 MW with normal range of about five miles. Microphone input 150 ohms. Controls for volume, tuning, squelch, pointer adjust, and dial lock. Can be used with either U.S. or Canadian versions of H-33/PT handset. With tubes 9/5678, 1AD4, 2/5672, 3/5676, 5A6. Requires 135 VDC, 67 V, and 1.5 VDC. (BA-279 battery see page 18.) Units shipped less 4300 Khz calibrator crystal which is not essential for operation. 9½x3x10⅝, 9 lbs; used-not checked, $20.95

RT-5009/PRC-509 CANADIAN TRANSCEIVER, same as RT-510 except 27 to 38.9 Mhz FM; similar to U.S. RT-175A/PRC-9A. Used, $22.95

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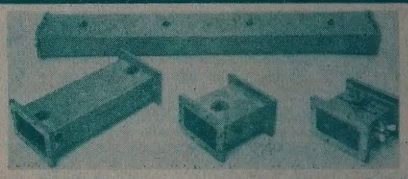
AT-5001/PRC WHIP ANTENNA, 11"-47"L, $3.00 ea
CY-5007/PRC BATTERY BOX, $3 w/set purchase.
H-33/PT (U.S.) HANDSET, used, $12.00
MANUAL for PRC-9A,-10A (U.S.), $7.50

3.7-4.17 GHZ WAVEGUIDE



COPPER WAVEGUIDE, 2"x1" size for the 3710 to 4170 Mhz range; Western Electric manufacture, removed from telephone installations. Filters are tuned to preset frequency; adjusting screws can be reset to desired frequency. No further information available.

#1301-Series FILTER with four adjusting screws; 18⅝" length, $24.95
#1303-Series FILTER, two top and two side adjust screws; 6-11/32"L, $17.95
#1300-Series FILTER, one top and one side adjust screw; 3-5/32"L, $12.95
#400-Series TUNER, two ¼" dia adjust screws; 2⅝" long, $14.95
#ED51566-30 TUNER/TRANSDUCER, two ¼" dia adjust screws, one 3/8" dia screw port; 2-7/8" long, $16.95

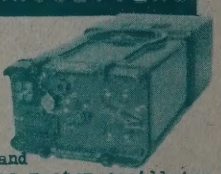
#J368330K1 XMTR AMPL, dual section 2-5/32" and 1½" variable internal port; o/a 4½"L, $19.95

#ED63919-31 AMPLIFIER with 416B tube with 3/8" dia screw port adjacent to tube grid cap; assembly silver-plated brass. O/a 5⅝x3½x1-3/8, 4 lbs sh. $27.95 Mating 6-prong connector, $2.00

WW-II MINE DETECTOR

SCR-625 MINE DETECTOR SET, famous World War II unit designed to detect anti-tank mines buried at depth upto 24". Detection indicated on meter attached to handle or audibly by the M-356 resonator. Set includes C-446 13" dia x 1" search coil, BC-1140 control, BC-1141 amplifier, M-350 handle, M-356 resonator, BG-151 bag, CH-156 transit chest, and manual. With tubes 2/1N3 and 126. Requires two "D" cell batteries and BA-38 battery (not available) which supplied 103 and 67 VDC. Units are in good physical condition, but because of their age we do not guarantee their operation. 49 lbs sh wt. Used. ~~$75.00~~ $59.50

CANADIAN TRANSCEIVERS



CRT-1/CPRC-26 CANADIAN PORTABLE TRANSCEIVER, six channel unit for use in the 47 to 55.4 FM Mhz range. Receiver consists of RF amp, xtal oscillator, mixer, 4/IF amps, limiter, discriminator, and audio amp. Transmitter has master oscillator, modulator, power amp w/3B4. Uses tubes 2/3B4, 5/1AD4, 5672, and 3/5678 all of which are in sealed plug-in modules except the 3B4's. Modules are reparable Receiver sensitivity about 2 uv, deviation 15 Khz. Transmitter output 300 MW. Receiver requires 1.5 V 550 ma 45 V 12 ma, 90 V 30 ma; transmitter 1.5 V 850 ma, 45 V 8 ma, and 90 V 30 ma. (Battery not available.) With battery box but less crystals. O/a 3x4⅝x10⅝, 5 lbs Used ~~$12.95~~ $9.95

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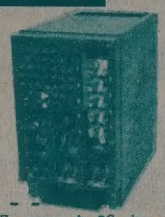
Accessories for CPRC-26: SCHEMATIC, $1.50
AT-5001/PRC ANTENNA, collapsible with flex base; 11"L folded, 47" extended. $3.00 ea.
CP-1/PRC COUNTERPOISE, rubber insulated 4 ft long wire w/split pin plug; use as counterpoise and/or trailing wire antenna. 2/$1.50
CAN-H33/PT HANDSET, $12. CABLE & PLUG only to change U.S. H-33 to CAN-H33, NEW $2.50
H-5002/PRC HEADSET, one 300 ohm element, $4.
MODULE SPARES, unused; specify RF OSCILLATOR, IF AMP, MODULATOR, AF AMP --$1.50 ea, 10/$10

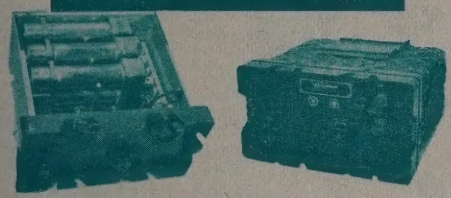
BC-683 FM RECEIVER



BC-683 FM RECEIVER, designed for 27 to 38.9 Mhz using ten push-button preset channels, or continuously tunable. Has built-in speaker; requires 220 VDC 80 ma, 12/24 VDC. Part of SCR-608-628 radio set. 11⅛x6⅝x12⅛; 40 lbs sh. Used, less dynamotor, $54.95

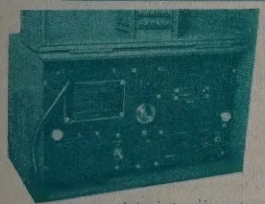
BC-603 RECEIVER, same as BC-683 except 20 to 27.9 Mhz; p/o SCR-508-528 set, WRITE
BC-604 TRANSMITTER, companion to BC-603; 70 lbs sh. Unused, less dynamotor, WRITE
DM-35 12 VDC dynamotor for BC-604-684, $20.00
MANUAL for SCR-508-528, original, $7.50

BANDPASS FILTER



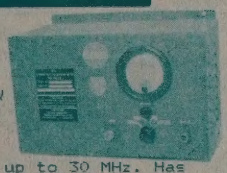
F-237/GRC BANDPASS FILTER, designed to operate from 54 to 70.9 Mhz using dial tuning. Bandwidth: 250 Khz @ 3 db points or 4.5 Mhz @ 40 db points. 50 ohm output and input impedance. Unit consists of a 3-gang variable capacitor coupled to 3 sets of three sealed cavities. Type C connections. F-237 has conversion possibilities for 6- and 2-meter amateur apllications. An article about these by W. Tucker, W4FXE, appeared in 12/80 issue of Ham Radio. 5x11½x11, 17 lbs. $19.95

CODE PRACTICE SET



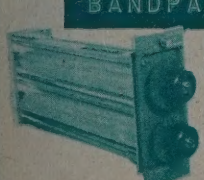
AN/GSC-1 CODE PRACTICE SET designed for student practice of Morse code, accommodating upto 10 keys. Hand keying produces either an audio tone with adjustable volume and pitch or a blinker flash. Has effective range of 40 ft. if background noise is less than 60 db Can be operated from 6, 12, 24, or 115 VDC or 115/230 VAC. With built-in speaker, blinker, volume and pitch controls and tubes 6X5 and 2/6AK6. Keys not included. 13½x18x11; 58 lbs sh. Used, $14.95;

SWR POWER METER



ME-165/G STANDING WAVE-RATIO POWER METER, designed for use with 400 watt HF transmitter; uses twelve 600 ohm 50 W non-inductive resistors in parallel to provide 52 ohm 600 W load with an SWR of 1.1:1 or less up to 30 MHz. Has 0-600 W full scale meter, function switch Power-Adjust-SWR-Operate, and type N connections. Flanged on back for wall mount. 13.5x 9.8x9.8, 18 lbs. Used $49.50; Manual repro $6

BANDPASS CAVITIES



FULL-LENGTH TWIN-CAVITY BANDPASS FILTERS, 9-1/8" length; gold-plated. Similar to filters described in W4FXE's article in 2/80 Ham Radio Magazine. 8 lbs sh wt. $22.00 each

F-192/U (100-121 Mhz)
F-239/U (58.5-67 Mhz)
F-240 (67-76 Mhz)
F-24E/U (84-92.5 Mhz)
F-241 (76-84 Mhz)

SHORT-LENGTH twin-cavities, $17.50 each.

F-195/U (163-184 Mhz)	F-201/U (284-314 Mhz)
F-196/U (184-205 ")	F-202/U (314-344 ")
F-199/U (224-254 ")	F-203/U (344-374 ")
F-200/U (254-284 ")	F-204/U (374-404 ")

TA-1/PT TELEPHONE

SOUNDPOWERED TELEPHONE SET WITH AUDIBLE AND VISUAL CALL SYSTEM. PALM OPERATED GENERATOR PUTS OUT APPROX. 100 V. THAT SOUNDS BUZZER IN OTHER PHONE AND ACTUATES VISUAL INDICATOR. COILED CORD WITH PUSH TYPE BINDING POSTS FOR INTERCONNECTING WIRES TO BE FASTENED TO. COMES WITH FIBER CARRING CASE. SIZE:8⅝x3½x3½; WT: ACT 2LB USED $25.00 EACH

OSCILLATOR

TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER, 56 to 99 Mhz with 75 C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) x-tal (not incld). Has external oscillator input and tuning meter and oven output. Requires 12-18 VDC reg. for osc., 22-39 VDC 1 amp for heater. W/BNC and two submini 27 (UG-1465) connectors, power input DEC 9P connector, and schematic. 6½x2x3¼, #OSC99828, $8.

LS-184 SPEAKER

LS-184/AIC-10 LOUDSPEAKER with AM-492 amplifier. 5" blast-proof speaker is rated 5 watts; 5.5 V input for 1 W output 300-6000 Hz. Input impedance approx 900 ohms. Amplifier uses four 5178 tubes parallel push-pull. Transformer coupled input and output. Requires 27 VDC 150 ma and 170 VAC 30 ma. DPDT switch requires wiring. 7¼x8¼ x4-1/8, 5 lbs sh. Used, w/schematic, $22.95

RD-60/U CODE RECORDER OF RADIO TELEGRAPH CODE SIGNALS. USES 3/8" WIDE, 800 FOOT ROLLS OF PAPER TAPE. RECORDS CODE SPEEDS UP TO 1000 WORDS PER MINUTE WITH A RECORDING TIME OF 26 MINUTES (LOW) OR 13 MINUTES (HIGH). INPUT SIGNAL FREQ. 500 TO 5000 HZ. INPUT IMPEDANCE 500 AND 5000 OHMS. OUTPUT IMPED. 6 OHMS.

WITH 9 TUBES. POWER REQ. 115 V. 60 HZ. SIZE 19x16x12¾; WT: 150 LBS.

Used-reparable with cabinet, $24.95; BOOK $5. Gov't reconditioned with cabinet, $32.95
PAPER TAPE for RD-60, $1.00 ea; 20 rolls, $10

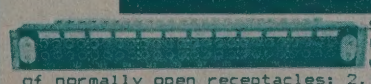
EE-8 FIELD PHONE

EE-8 FIELD TELEPHONE, portable hand-ringing magneto type. Operates from two "D" cell batteries (not incld). Two or more can be used in a two wire system up to 17 miles in length. With carrying case and strap. 8x10x3.5, 19 lbs. Used, $45.00 MANUAL $5.

RM-39 FIELD CONTROL

RM-39 CONTROL UNIT, designed to allow EE-8 or similar field phone to remotely transmit and receive AM and CW radio communications. RM-39 is placed between field phone and radio set; also provides ringing circuit. Has GN-38 hand crank generator, MC-131 bell, selector for Telephone-Through-Radio-CW, and plugs & jacks for Headset, Key, and Mic. Part of RC-289 remote set. Requires 4.5 V, 15 V, and 3 V originally supplied by batteries (not available). 5x6.4x9.3, 16 lbs sh. Unused, $22.95
MANUAL for RC-289 including RM-39, $7.50

PATCH PANEL



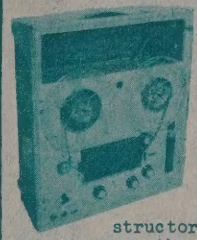
SWITCHBOARD PATCH PANEL w/24 pairs of normally open receptacles; 2.1x17.8x3.8, 6 lbs sh. #24-SWB-PP, used, $18.00

8 OHM 400 WATTS

POWER LOAD RESISTOR PAIR, each 8 ohms 400 watts 8⅛" lg X 1⅝" dia; usable for audio when non-inductive loads are not required. Includes mounting bracket; 3 lbs. #RES-8-400PR, NEW ~~$12~~ $9.

DALE 8 OHM 100 W 5% RESISTOR, 6½x1¼, $2.00 ea
2 OHM 200 WATT SLIDER ADJUST, 10½x1¼, $1.95

LANGUAGE LAB RECORDER

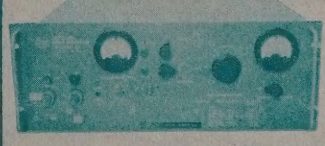


LANGUAGE LAB TAPE RECORDER, solid-state design; made by General Electronics Lab. Has three heads: one playback only master head on one track and the other two, playback and record, on a second student track. Uses standard ¼" audio tape on upto 7" reels at speeds 3¾ and 7½ ips. In practice, one can monitor the master "instructor's" track while recording responses on the student track. The student track can be played back simultaneously or separately from the master track depending upon control selection. The master track, which plays in one direction only, can be recorded upon or erased by switching plug-in wires from the student track heads. Besides its original usage, the recorder could be useful for code practice of for sound-on-sound audio experimentation. Audio response approx. 300-8000 Hz. Controls for student and master volume, playback-practice select, pause, and the other standard recording functions. Also three motors for very rapid fast forward/rewind, audio level meter, footage counter, 4" built-in speaker, and four plug-in circuit cards for audio, master audio, student audio, and bias oscillator. Uses common 2N2836 and 2N3702 transistors. Tape and reels not included; microphone and schematic not available. Requires 115 VAC 60 Hz. 18x16¼x8½, 36 lbs sh. Schematic included. Used, reparable, $19.95; Checked, $45.00

TELEPHONE TEST SET

I-142/PTM-6 TELEPHONE TEST SET, measures characteristics of telephone and related equipment including these operations: 1. Sound source for mics and receivers; 2. Efficiency test for mics and receivers; 3. Capacitor test for leakage resistance; 4. Generator test; 5. Ringer test; 6. Insulation test; 7. Dial test indicating percent of pulse period; 8. Continuity test; 9. Instrument tests such as 600 ohm circuit for sound-powered equipment; 24 V. DC-AC res. circuit for common battery phones; impedance matching circuits for carbon and magnetic mics and receivers. Meter has scales -10 to +6 DB and 0-100 VDC. Requires external batteries for 3, 12, 24, and 135 VDC. Batteries not available. 19x12 x9, 46 lbs sh. I-142, used, ~~$59.50~~ $49.50
TS-903/PTM-6A, more recent; 65 lbs., $65.00

AM-4531 POWER AMP



AM-4531/GR VHF LINEAR POWER AMPLIFIER by Granger Associates; designed for 120 to 152 MHz range to deliver 50 watt output from 10 W input. Uses 8122 tube in P-A. Has 2.5" rd multimeter with seven position switch to monitor Plate to 2 KV, Screen to 1 KV, Plate RF Peak to 1 KV, Bias to -100 V, Forward Power to 100 W, and Reflected Power to 100 W. Also 2.5" rd 0-300 ma Plate Current meter, Loading and Coupling controls each with lock, and Bias Adjust. Requires 105/115/130/210/230/260 VAC 47-400 Hz. 7x19x14.5, 50 lbs. Used-not tested, $195.

Headsets — Telephone Equipment — Microphones — Handsets

HS-23 HEADSET, 2K ohm using R-14 elements and unused grey plastic headband; 4½' cord w/plug. Less cusions, $9.25

HS-23 w/HB-7 brown headband (not U.S. mfg), 18" cord and PL-354 plug, WRITE

4" CHAMOIS CUSHIONS for use with HS-23 or HS-33, #M301, new $2.25

RUBBER CUSHIONS #MC-162 2½" $1.00
MX-41 2¾", $1.25

HB-7 HEADBANDS: Grey $3.25; Br $3

CX-1334 CABLE, adapts H-113 or CW49505 to GRC-equip (JK-26 jack and U77 plug, $4.

#ZA/CAN3538 dynamic headphones, 125 ohm imped;

MOVING COIL-TYPE, QUALITY REPRODUCTION. ADJUSTABLE CANVAS STRAP FITS ON TOP THE HEAD; STEEL-BAND BEHIND. WITH CHAMOIS CUSHIONS, "Y" CORD, AND PHONE PLUG.
UNUSED, $5.95

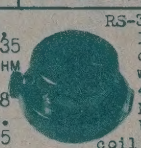
SOUND-POWERED INTRUSION

MICROPHONE 225 ohms with 6" stake for pushing into ground for artillery use. T-56 USI element 1614-11 unused $3.75

Western Electric Sound-Powered 1024 ohms D-173016 trans. D-173012 receiver new $3.00 ea.

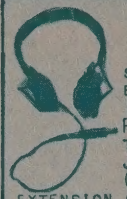
Carbon Elements F-1 Mic. $1.50
Lip Mics: M-51 M-6 M419 etc. $1.50
Telephone elements: U-1 or T-1, $2.00

T-17 MIC, CARBON 35 TO 90 OHM PUSH-TO-TALK; PL-68 ON 5' CORD.
USED $6.95
RE-COND. $9.



RS-38 MIC, 100 ohm carbon; w/PL-68 4' cord NEW $8. Used w/ coil cord $7
New, not U.S. $6.

HS-230 HEADSET w/250 ohm elements as used in HS-30; soft 3½" velour cushions, leather headband, & 18" cord w/PL-54 plug. Unused, $9.95



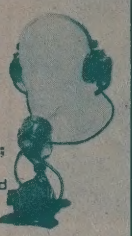
H-113/U HEADSET 600 OHM SOFT PLASTIC EAR CUSHIONS 18" CORD W/ PL-54 PLUG THAT FITS JK-26 JACK (SEE CD-307 EXTENSION CORD ELSEWHERE ON THIS PAGE)
WT: 3LBS. USED-EX $5.95

CW49505 HEADSET like H-113 except black and has provision for snap-on CW-51071 lip mic listed below.
Used-excellent $4.95

CW-51071 LIP MICROPHON 100 OHMS IMPEDANCE W/ 2 SNAPS FOR FASTENING TO H-62 HEADSET, 14" CORD W/ PL-291 PLUG INTO EXTENSION CORD CD-318 LISTED ON THIS PAGE OR CW-49561 EXTENSION CORD LISTED BELOW
USED $1.00

JK-38 PHONE JACK FOR INLINE USE, TAKES TWO PL-55 PHONE PLUGS $1

PUSH BUTTON SWITCHES FOR HANDSETS THAT USE BUTTERFLY TYPES. DIRECT REPLACEMENT. #5930-327-7308 $1.25



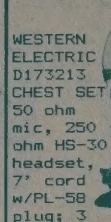
SOUND-POWER CHEST SET, RCA MI-2045 headset and chestplate with W.E. D173197 mic; 5 lbs sh. Used-checked
$18.00

CARBON MICROPHONES 50 OHM F-1 TYPE PRESS TO TALK No. C-3 (LEFT) 4' CORD PL-55 PLUG UNUSED $4.95
M-2/10A/1422 (RIGHT) 4½ FT. CORD PL-68 $3.95

CO-78 HEADSET "Y" CORD 7' LG. RUBBER COVER NO PLUGS, TERM. $1.50

AN/GSA-6 CHEST GROUP for use with H-63 headset. Includes SA-142 switch and CX-1077 cord w/U-77 plug. Used, $8.00

SWITCHBOARD CORD 4½' w/PL-47 #BD-96 $1.50



WESTERN ELECTRIC D173213 CHEST SET 50 ohm mic, 250 ohm HS-30 headset, 7' cord w/PL-58 plug; 3 lbs. Unused, $15.

HS-30 HEADSET 250 OHM IMPEDANCE hearing aid type light weight headband 7½" cord w/spade lugs that wire into CD-604 or CD-605 cord for 4000 ohm.
Used, $7.50

J-47 KEY

J-47 KEY & LEGIRON, has J-37 key on 3x4.5 base marked "J-47," key leg clamp, 65" cord w/PL-55. 3 lbs; unused, $15.95
J-47 key only, $11.00

HS-16 HEADSET OR EQUIVALENT (SIMILAR TO PIC.) 2000 OHMS WITH 6' "Y" CORD & METAL TIPS. Unused $4.95

TS-9 HANDSET WITH PUSH TO TALK SWITCH (NOT BUTTERFLY) WITH 3 COND. CORD 4' AND TERMINAL LUGS. NEW COND. $4.95

H-23 HANDSET, push-to-talk; cord w/PL-68 & -55. Like TS-13; unused, $16.

T-45 LIP MIC

BRASS KEY WITH 2 BEARINGS; ADJUST. CONTACTS, COVER, CORD, AND PLUG. #R11950, $4.75

M-86/U MAGNETIC MICROPHONE: 50 OHM IMPED. PUSH SW. LEVEL CONTROL 7' CORD. UNUSED $14.95

T-30 THROAT MIC.

T-45 MICROPHONE CARBON TYPE 100 OHM 50DB BELOW 1 MILLIVOLT, FLAT RESPONS WITH PL-291 2 CONT MALE PLUG, 11" CORD
Used, $4.00

CX-1324 CORD, 4 ft with PL-55 each end
Unused $1.50

CX-2481 CORD, 12 ft one end PL-55, other PL-68; $1.75

CHAMOIS CUSHIONS 4" dia for HS-23, -33, and other headsets; #M301, unused $2.25/pr.

PL-68 MIC PLUG 30" Used, $1.00

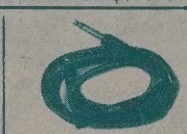
JK-33 JACK TO FIT PL-68 MIC. PLUG.
Used, 3 for $1.00

COILED CORD SET

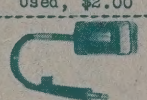
COILED CORD SETS

Three conductor, 24" to 72" 75¢
12" to 36" 50¢

3-cond. in colors 18"-36"; green, red, lt. blue 50¢ Grey or pink, 3/$1



CD-307 CORD EXTENSION FOR CORDS WIT PL-54 PLUG AS USED ON HEADSETS, 65" LG WITH JK-26 JACK & PL-55 PLUG.
Used, $2.00



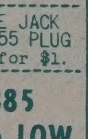
CD-604 CORD WITH IMPEDANCE MATCHING TRANSFORMER 500 OHM TO 4000, USED WITH HS-30 HEADSET, 6" CORD & PL-54 PLUG.
Unused $1. Used 60¢

CD-605 CORD SAME AS CD-604 ONLY 30" LG. WITH PL-55 PLG
Used, $2.00

PL-55 PHONE PLUG 30" CORD $1.00

JK-34 PHONE JACK TO FIT PL-55 PLUG
Used, 3 for $1.

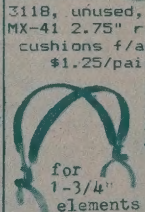
MC-385 HIGH to LOW ADAPTER



IMPEDANCE FOR HEADSET 4000-600 OHM
Unused, $1.50

T-30 MICROPHONE CARBON TYPE, 75 OHM 50DB BELOW 1 MILLIVOLT, FLAT RESPONS WITH PL-291 2 CONT MALE PLUG, 11" CORD
PRICE: Used, $4.00

2000 OHM HEADSET rubber-padded headband 6' cord w/PL-55 plug; 2 lbs sh. #5965-400-3118, unused, $5.95
MX-41 2.75" rubber cushions f/above, $1.25/pair



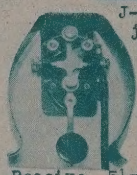
HB-1 HEADBAND $1.50
for 1-3/4" elements

HB-1/2000 ohm elements & Y cord 6' used used $4

BLACK STANDARD TELEPHONE HANDSET & CORD, old style, Used $5. Newer-style used $3.00

DOUBLE PLUG D178542 for headset; similar to type 289 and 298. Unused $2.50

TELEGRAPH KEYS



J-45 LEG IRON w/J-37 KEY with adjustable contacts. Includes 7½' CD-201 cord w/PL-55 plug. 4 lbs sh. Used, $12.00
LEG IRON only, $4.75

CANADIAN #48 KEY (left), ball-style button; toggle switch for Send-Receive. 5½x2⅝ base, canvas leg straps, and 5' cord with PL-68 plug. 4 lbs sh. #CAN-48, unused, $8.50

STANDARD TELEPHONE EQUIP.

All of our standard telephone equipment is sold as "used-complete" only unless otherwise noted. Some adjustments may be required so that the equipment conforms to your local telephone company's system.

CALL COMMANDER SWITCHBOARDS, NE-6340-1 or similar with plug; gray, green, or beige colors:
11-line 1-hold ~~$22.95~~ $14
17-line 1-hold ~~$28.95~~ $16

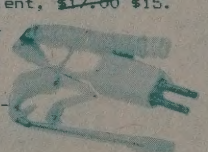
3-LINE 3-HOLD AE 87 DESK SET, terminal lug connections; black, 6 lbs sh. Unused-boxed, $27.95

2-LINE DESK SET phone w/terminal lug connections; black. $16.95

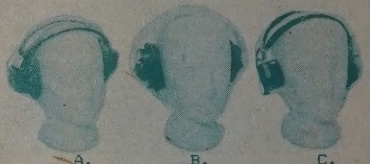
WALL PHONE, older Stromberg Carlson w/ringer; black, used, $15.

OPERATOR HEADSET

WESTERN ELECTRIC TYPE 52 OPERATOR's HEADSET w/BOOM MIC, has single 150 ohm DC res. receive element and 50 ohm mic on 8" boom; 5' cord has WE396A dual PL-55 style plug. 2 lbs sh. Used-excellent, ~~$17.00~~ $15.



NORTHERN TELECOM VENTURE I ULTRA-LIGHT HEADSET & BOOM MIC, boom fits over ear and audio is heard through a disposable earplug. 2-prong plug has built-in impedance matcher. Coil cord with On-Off switch stretches 7'. 9 VDC required for intercom and other uses. Used-exc $19.95



A. B. C.

A. TELEX 510-01 HEADSET, 500 ohms; blue vinyl-covered cushions, 4' cord w/mini-plug. Used, $4.95
B. H/88 LANGUAGE LAB HEADSET, 600 ohm; blue vinyl cushions, 4' cord w/phone plug. Used, $4.95
C. W.E. #D161911 HEADSET, 256 ohms cloth-covered cord with D161821 dual plug, unused $5.95

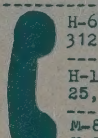
FLAMEPROOF KEY

J-5A FLAMEPROOF KEY, early U.S. WW-II vintage; 3-1/8x2-5/8x3/8 phenolic base. Ball-style button; 2 lbs sh. Unused-boxed, $9.95

J-37 Key with brass adjustable contacts, mounted on bakelite base 3"x6"x 3/8" with cord.
Used $7.95
Without base, $6.

WW-2 ITEMS
TD-3 new $7.
TD-4 new $7.
T-26 new $7.
T-39 new $8.
T-46 new $7.
H-12 new $7.
H-18 un $8.
H-19 un $15.
BE74 used $7

JEN-20 HANDSET w/AMPLIFIED receiver for the hearing impaired; Black, white, or beige. NEW $15.



H-60 HANDSET f/TA-43-312 phones. used $10

H-189 HANDSET f/PRC-25, VRC-12 Used $12.

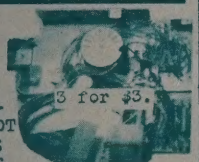
M-80 MICROPHONE with U-229 plug. used $10

M-29 MICROPHONE with U-77 plug. used $5

H-250 HANDSET w/U-229, used, $15.
H-251 HEADSET w/U-229, used, $14.
H-63 HEADSET & BOOM MIC used $12.
H-91 HEAD & BOOM MIC w/U-77, $14.
H-144 HEAD & BOOM MIC w/U-77, $15.
H-161 HEAD & BOOM MIC w/U229, $25.
H-182 HEAD & BOOM MIC w/U-77, $18.

GENERAL TIMERS TM-506 to right, 0-14 second indicator 110 volt 60 hz. motor repeat cycle used $5.50
TM-229 same as above, no face plate, knob or dial. For 10 seconds oper. max. U $4.

TIMER BONANZA



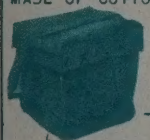
CARTRIVISION TIMER CONTROL, 115 VAC 60 Hz motor w/SPDT contacts; upto 8 hr delay. Also 18 V 200 ma transformer, 12 VDC SPDT relay, SPDT & 4PDT center-off slide switches, transistors, rectifiers. $1.35

3 for $3.

STOVE TIMER CLOCK MECHANISM w/start-stop control dials. Grey face 5x4; style may vary. 115 VAC 60 Hz w/switch rated 230 VAC 30 amps. Knobs not original, but usable. 2 lbs; #Q155760, $3.50

CANVAS

BAGS, STRAPS AND COVERS, MAY BE USED OR UNUSED. ALL ARE CLEAN WITHOUT TEARS. SHOULDER STRAPS ARE ADJUSTABLE AND MADE OF COTTON WEBBING.



CW-TRB ROLL BAG for tools, etc.; folds to 17"Lx8½"W. Used, $5.00

CW-189 BAG w/ strap; 10"Hx 9½"Wx8"D. Minor tears, $5.

CW-187 ROLL BAG for AB-21 -22-23-24 mast sections; 36" long. Used, $6.00

PRC-25/77 CANVAS, used: ST-138 HARNESS, $12.00 CW-503 ACCESSORY BAG, $6.

MAST BASE COVERS, unused: BC-108, for MP-48, $3.00 BC-67, for MP-37-57, $2.75

ST-19 CARRYING STRAP, 65" LG. X 2"W; w/2" SWIVEL-EYE SNAP HOOK AND TONGUELESS-BAR BUCKLE NEAR ONE END TO ADJUST LENGTH. $3.00

ST-42 CARRYING STRAP, AS ABOVE, NO SWIVEL, $2.50

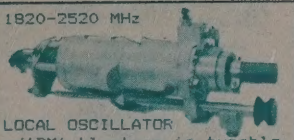
GRC/VRC EQUIPMENT COVERS: CW-329, adjustable for GRC-3--8, used $8. CW-330 f/VRC-8-9-10 new $8 BG-75 f/BC-312-342, $7.50

CY-5057 BACKPACK f/Canadian PRC-509-510; fits U.S. PRC-8-9-10 also. Used, $10.00

CW-216 CARRYING BAG F/PRC ANTENNA AND H-33 HANDSET; COMPARTMENTS FOR EACH. O/A 19" LONG WITH TOP 5" WIDE TAPERING TO 3" WIDE AT BOTTOM, 3½" DEEP. W/SNAP COVERS AND HANGER FOR AMMO BELT, $6.00

CW-206 ROLL BAG FOR MS-116 SERIES MAST SECTIONS. COMPARTMENTS FOR GRC-SERIES SET ACCESSORIES. SNAP AND WEB STRAP CLOSURE. O/A 40" LONG, 3"Hx5"D. Unused $8.

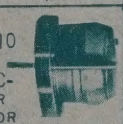
1820-2520 MHz



LOCAL OSCILLATOR w/6BM6 klystron in tunable reflex cavity; three probe coupled outputs; requires -300--600 V ref, -300--475 V grid, -300 V beam, & 6.3 VAC fil. 3-BNC conn & info; 12x4x4, 5#. #OSC/R418, $65.

TIME-O-MATIC SIGN CONTROL, 115 VAC 60 Hz. THREE CONTACTS RATED 15 AMP EACH. TWO ALTERNATELY MAKE AND BREAK ONCE PER SECOND FOR 15 SEC; OTHER BREAKS FOR 20 SEC. AT THE SAME TIME. THEN ALL THREE MAKE AND THE CYCLE REPEATS. SIZE: 3x5½x6; SHPG. WT: 5 LBS. #53 K-155, $4.95

KEY SELECTOR CONSISTS OF MANUAL CLOCK MECHANISM FOR SENDING 17 IMPULSES, CAN BE SET TO CALL ANYONE AT 78 STATIONS, SPST LEVER SWITCH 2x2½x4¼: 4C5100.60A $1.50



SYNCHRON CLOCK MECHANISM, No.610 110 v. 60 CYCLE 3 WATT 1 RPM #EC-129RB, WITH GEAR ASSY, NO RESET OR COVER. 2x2x2¼; 4oz. $1.35

SYNCHRONOUS MOTOR, 26 volt 60 cycle, 60 rpm, shaft 1x 1/16, motor 1½x2⅜ #1147 $2

MOTOR DRIVEN RELAY SPST norm. open 115 v. 60 hz. 10 amps. cont. motor 115v 60 hz. non. sync. 3.8 w. 4/5 rpm. Cams can be set to set to make cont 30 to 60 seconds. Also has provision to bring out a shaft. size 2½x4x2, 1 lb. #N17R-68292 unused $6.00

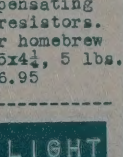
CRAMER TIMER SWITCH ASSY. MODEL TC-60SEC, 230 v 60 CYC, SWITCH 5 AMP. CONT. 3.8 W. 4/5 RPM MOTOR. $1.95

THERMAL SWITCH opens 30 sec. after cooling. Operate 130 vac. 2m ohm res. 1½x1¼, 20" leads. M-4199 $1.50

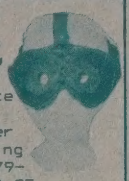
AUDIO OSCILLATOR ASSEMBLY, originally in circuit with 2 6SJ7 tubes to produce 425 to 2295 Hz output in 12-steps of 170 Hz. Has 24/12 pf trimmers and 21 temperature compensating capacitors and resistors. Use as basis for homebrew oscillator. 5½x5x4¼, 5 lbs. #OSC-DIV3499, $6.95

WARNING LIGHT

CROUSE HINDS HAZARD LIGHT, 5"Hx4" dia red glass dome on cast aluminum base w/mounting clamp f 0.5" dia rod; standard light bulb socket. Has waetherproofing seals. O/a 7.5" high; 5 lbs sh wt. #EOL-44527, unused, $22.95



HONEYWELL HUMIDIFIER CONTROL as used on home humidifiers. Plastic element tape senses 10%-70% humidity and closes normally open 120 VAC contacts depending on setting of variable control. Shaft 1x¼ dia; o/a 1x 1⅝x4⅛. #H46B1150 NEW $1.95



HEAD-MOUNT MASK masks extraneous light during low light viewing of instruments--nice Halloween mask, too! Rigid rubber w/velcro adjusting straps. #5855-179-8583, unused, $4.95

OVERHEAD LIGHT FIXTURE for RV van or trailer. Automotive double contact lamp socket for 6-12-24 VDC 25W max lamp; also 5½x2⅛ diffuser lens. Outer 8⅝x5; fits in 7x3¼ x3⅛. 4 lbs. #174-0L NEW $4.

HEATING ELEMENTS

ROUND HEATING ELEMENT, 6" OUTER DIA., 3¼" INNER DIA. ¼" THICK. 118 VAC 500 WATT. NUT TERMINALS. #HSW-6, $3.

BRYANT STRIP HEATING ELEMENT, 120 VAC 150 watts; 1⅛"W x 8"L including mounting flanges. 2 lbs sh. #6115-931-7883, NEW, $2.95

LOOP COIL TYPE, 9" LONG; 115 VAC 30 w. #83975, $2.00

DOUBLE "U" LOOP COIL, 3" HIGH. 115 VAC 1000 WATT. CHROMALOX #2111-2, $2.50

LONG DURATION TIMER WITH 115v RESET RELAY. 115v 60 HZ 1/16 RPH MOTOR. CAM ACTUATES SPDT MICRO SWITCH. 3¼x2¾U. UNUSED $2.95

ILLUMINATED CLOCK MECHANISM AS USED ON CLOCK RADIOS. CLEAR PLASTIC FRONT TO TRANSMIT LIGHT, NO HANDS. HAS 60 MIN TIMER ALSO HAS ON-OFF-AUTO ALARM 2"SQ FACE. 115v 60 HZ. SH WT 2 LB. UNUSED $1.50

GEARS GEARS GEARS Gear box w/two pr beveled 45 gears and 20 other gears ¼" to 1½" dia on bronze bearings 4x7x4⅛, 5 lbs #TUN/ARC45 $5

24 V BELL

ALARM BELL, 3" dia bell operates from 24-36 VAC or DC; o/a 5.3x3x1.3, 2 lbs Western Electric #7-AW, unused $6.95

CRAMER INDUSTRIAL TIMER, 115 VAC 15 amp contacts; 3.8" dia x 5.5"D. #412E-30M, 30 min; unused $10.

MN-40 INDICATOR 0-360 DEGREE SCALE SIMILAR TO ABOVE EXCEPT THAT IT IS OPERATED MECHANICLLY BY USE OF A SPLINED FLEXIBLE SHAFT OR SPIN KNOB OR BOTH.

MN-40 INDICATOR 5"	$4.50
MC-124 SHAFT 20"	$1.50
MC-137 SPIN KNOB	$1.00

PARTS GALORE

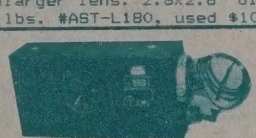
TELEMETER PROGRAM SELECTOR part of an obsolete pay TV system which featured pre-recorded tape program review, coin deposit register mechanism, and audio amplifier-power supply with 4" speaker. Generates 8 Mhz signal to trigger mechanism and 35 Mhz video output. Tape magazine has recording head and plays 66' of ¼" tape in continuous loop. Mechanism has 5 RPM Cramer 115 VAC motor plus other motor, gears, etc. Power supply output 150 VDC 100 ma and 6.3 V 3 amps. Tube line-up 3/6U8, 6BE6, 6BA8, and 12BH7. Cabinet 15x7x7, 21 lbs sh. Our bargain price is worth the tape magazine, coin mechanism, power supply, or tubes alone. NEW, $6.95

KEY ALARM

ALARM CONTROL PANEL w/5-position key lock wafer switch, SC628 Sonalert 6-28 V 3-14 ma, and five panel lights. 11.3x4x8 2 lbs. #ALRM-SC628 w/key, $7

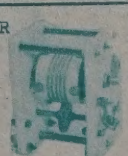
180 MM

180 MM LENS apertures f4.5, f5.6, f6.3, f8, f16; use as 4x5 enlarger lens. 2.6x2.8" dia 2 lbs. #AST-L180, used $10.



ID-68/APA-44 AIR SPEED INDICATOR; CONTAINS A KOLLSMAN TRUE AIR SPEED METER AND A INDICATING WITH A RANGE OF 84 TO 434 KNOTS. HAS OSTER MOTOR AV-240, RELAY, 1/6AK5 TUBE, COMPENSATING DEVICE PLUS MANY OTHER COMPONENTS. 15x7½x5; 20 LBS. USED $10

RHODES 60 SEC TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3" dia plastic case; 1 lb sh. #56414, NEW, $2.50 each.



ROLLER INDUCTOR 1.3 uHy, 5¢ turn #12 wire forms 1⅛"L X 2" dia coil; 3/8x¼" dia shaft. Ceramic form and end plates. O/a 5x3x4⅛, 3 lbs sh. #939-15-SM, used $5.95

ID-718/ARN DUAL AZIMUTH RADIO COMPASS INDICATOR, 3" dia 360 degree scale in 2 deg increments. Has two selsyns 26 V 400 Hz or 12 V 60 Hz; usable in 9/79 OST antenna position project. 6¼"D. Unused $18.

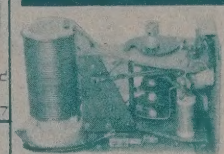
MC-507 SELSYN-INDICATOR, transmitter unit usable in wind direction and beam locater systems. Has 3" dia 0-360° scale 5° steps; 12-24 VAC 60 Hz req. 2 lbs. $8.95 2/$15.

I-91(*) RADIO COMPASS INDICATOR 3" 360 deg. sc. used w/ARN-6 sys. 3½"x3".(can be us used with wind direction system) used $9.95 NEW $14.95

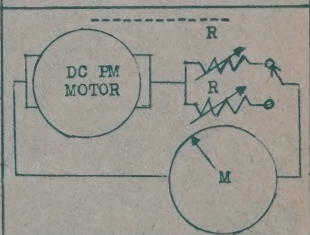
3" DIA 0-360 INDICATORS, usable for OST antenna position project. I-81, 5 markes, used $8.95 ID-637/ARN, 2 marks and VAR knob, unused, $10.95

I-101 CROSSPOINT INDICATOR, 3" dia f/glidepath Good movements/ broken glass $3.

OUTPUT NETWORK



OUTPUT NETWORK part of ART-13 xmitter; designed for 200 pf capacitor & L112 variometer to provide Pi and L matching for 813 tube. 57 uHy coil tapped 2-6-15-24-34 uHy, coil tap switch, and 7-Centralab 850 HV caps 25 pf, 3/50 pf, 3/67 pf. 5.5x8x3.5, 7 lbs sh. #ONET/ART-13, used, $12.00



WIND SPEED INDICATOR using a 24 VDC PM motor as a generator, a 1 milliammeter and a resistor range scaler so that wind speed can be monitored indoors. We will supply the PM motor and a 3½" rd 0-1.0-50 scale (FS-1 ma) meter; you design the rest. #WS-MOTOR & METER, $7.95

AY-1 AUTOSYN MOTOR AS USED IN I-81, I-82 ETC. DIRECT REPLACEMENT. $5.95

I-81 & I-82 ARMATURES ONLY #3H2716/A1, UNUSED, $3.95
I-82 GLASS ONLY, $2.00

SMALL INVERTER SUPPLY

TRANSISTOR INVERTER POWER SUPPLY, input 24 VDC 500 ma; output 110 VDC 60 ma. Can be used to supply B+ for low power tube type receivers. Transformer has 286 VCT 70 ma secondary. Other uses possible with modification Reduced output at lower input voltages. Schematic included. 3½x3x2, 2 lbs sh. #522-1091-004, used-checked, $9.95; used-defective $4.95. DA-15S PLUG to fit above inverter, $1.50 ea.

45 KW GENERATOR CONTROL

GENERATOR CONTROL PANEL, United Electric #2K3890 for 45 KW 208-416 VAC 50-60 Hz installation; 3½" rd meters for 0-450 VAC, 0 to 125% full load, 0-60 KW, & 48-62 Hz (reed-type); also voltage, frequency, and governor adjusts, AM-VM selector, On-Off Parallel Operation, AC Overvoltage Reset, and Field Flash Voltage button. 22½x18½x6¼, 56 lbs sh. Unused, $125.00

NORTH ELECTRIC MODULAR POWER SUPPLIES, stable solid-state units removed from equipment. All 115 VAC 60 Hz input; outputs -5% @ 40 centigrade. Appearance varies from picture; 20 lbs sh wt approx.

#N14003KA	3.7 VDC 14 amps	$21.00
N65006A	5.0 VDC 35 amps	60.00
N11006A	6.0 VDC 3.5 amps	15.00.
PMC PXC-C-36	36 VDC 2.3 amps	22.00

19"W RACKMOUNT MODULAR SUPPLIES, reparable:

#N17005A	5.0 VDC 49 amps	$60.00
N17006A	6.0 VDC 47 amps	60.00

DEC H721 RACKMOUNT SUPPLY, ±5% adjust output +10.5 V 3 amp, -15.5 V 5 A, and -5 V w/5 A current limit (fused 25 A); fan cooled. $35

SPERRY 4113281 RACKMOUNT SUPPLY, 120/240 VAC input; outputs +6 V 5 amps, -12 V 2.5 A, and +48 V 5.5 amps. $50.00

LAMBDA SWITCHING POWER SUPPLIES, all outputs ±5% adjust; ratings @ 40 C. Not suitable where RF noise is a consideration. Unused or little used.

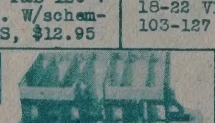
#	Output	Reg	Size	Wt	PRICE
LUS-8-24	24 V 700 ma	4%	3½x1½x4	2	$10.95
LYS-X-28	28 V 5 amp	1%	2½x5x7	6	$26.95
LGS-EE5-OVR	5 V 120 A		4½x6½x17	25	$115.
LGS-EE15-OVR	15 V 47 A		4½x6½x17	25	$115.

PHILBRICK -300/+300 VDC POWER SUPPLIES, 0.001% designed regulation; not metered, rackmount. #R-300, 300 ma; 42 lbs sh wt. Used, $37.50

#R-600, 600 ma; 55 lbs sh wt. Used, $50.00

TRANSFORMER & DIODE ASSEMBLY with Signal 24-4 transformer which has two 12 V 4 amp secondaries. Also two 200 V 40 A diodes, two 300 V 25 A SCR's, and a P&B 120 V 50-60 Hz DPDT relay w/10 A contacts. W/schematic. 10½x3½x3¼, 8 lbs. #ASI-M912VPS, $12.95

HI-CURRENT BRIDGES



#A9013AX4 1-Ø DUAL PARALLEL BRIDGE ASSEMBLY, has eight diodes each 100 V 83.7 amps or 220 A if air-cooled, 4500 A surge 1 Hz. 7½x18½x9, 26 lbs sh. ~~$39.50~~ $30.

#A9013CS1ED1 3-Ø FULLWAVE CENTER TAP BRIDGE with 6-300V 83.7 amp diodes; 7x14x8¼, 21 lbs sh wt. Used. ~~$42.50~~ $32.

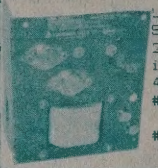
* *

TS-1409 INVERTER TEST SET, for 100 and 250 VA 400 Hz inverters; meters 0-35 VDC, 0-35 ADC, 0-150 VAC, 0-1.5 ADC, 380-420 Hz (nine reed). 28 lbs sh; Unused w/book $65.00

PP-68 VIBRATOR POWER SUPPLY, provides 100 to 110 VAC 60 Hz 15 or 50 watt output from 6 VDC 6/13 amps (15W/50W) or 12 VDC 3/6.5 amps (15W/50W). With 66" battery cable. 9¾x11½x8¾, 34 lbs. Checked, $22.95

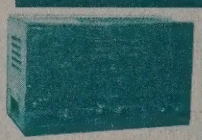
MRC-66 DC to DC SUPPLY has two separate DC to DC transistor inverters operated by 24 VDC input: Output "R" -70 V bias, +100 VDC 20 ma, and +200 100 ma. Output "T" +200 VDC 150 ma 70 VDC (isolated +,-) 75 ma, and 6 VAC 5 amps. Inverters in separate boxes which can be removed and used independently. Also has 24 VDC control relays, Reg-Ohm regulator for 6 VAC, locking cabinet with cover & key, plug, and schematic. 9½x6x16, 21 lbs. $22.00

LAMBDA DC SUPPLIES



LAMBDA MODULAR POWER SUPPLIES, 105-125/210-250 VAC 47-63 Hz input; outputs +5% @ 40 C. Used-good cond: #LOS-Z-5, 5 VDC 3 amp 4.8x4x2 3 lbs $14.95 #LOS-Y-24, 24 V 2.3 A 5.6x5x2.8 4 lbs, $20

12/24 VDC 22/11 A



CPP-2 POWER SUPPLY, output 12 VDC 22 amps or 24 VDC 11 amps. With mains and load control and output mode indicator lights. Input: 90-130 VAC 60 Hz. Size: 11x18½x10½, 90 lb sh wt. Used, ~~$55.00~~ Now $45.00

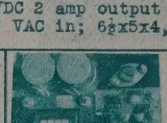
DYNAMOTORS

TYPE	USED	RENEW	TYPE	USED	RENEW
DM-25	2.95	4.95	D-401		6.95
DM-28	6.95		D-402		6.95
DM-32	2.95	4.95	D-401(SPEC)		8.95
DM-32	WRITE		DY-9	9.95	
DM-32	WRITE		DY-10	12.95	
DM-34	12.00		DY-17	no base $15.	
DM-35	20.00		DY-21	8.95	
DM-36	2.95	6.95	DY-22	9.95	
DM-37	WRITE				
DM-40	WRITE		DA-6A		8.95
DM-41	WRITE		DA-1F	11.00	
DM-42		15.00	DA-14		8.95
DM-43					
DM-53	4.95		BD-77		19.95
DM-53	5.95 (12V)		BD-83		8.95
DM-64	7.95				
			PE-86		5.95
ADVISE US OF YOUR REQUIREMENTS OR WRITE FOR SPECS.			PE-98	8.95(COMP)	
			PE-98	4.95(DYN)	
			PE-94	9.95	

LAMBDA C-880M DC POWER SUPPLY, 0-200 VDC 800 ma and 6.3 VAC 10 amp output from 115 VAC 60 Hz in. Rackmount w/meters; 81 lbs sh. Used $65.00.

4ISI4 F/COLLINS 618; INPUT 27.5VDC 22 AMPS. OUTPUT 650 VDC 550 MA. & 250 VDC @ 150 MA. SIZE 9x14 N $15

ELECTROSTATICS MODEL 50 SUPPLY, 18-22 VDC 2 amp output from 103-127 VAC in; 6½x5x4, $20.00



TRANSISTOR-REGULATED SUPPLIES 115 VAC in: #CD12N.85, 12 VDC 850 ma; on 4½" x 5" circuit board, $6.

THUNDER SUPPLY, 3.7 VDC 750 ma output; info for 3-10 V 500 ma modification. 3½x5x3, 4 lbs. $6.

INVERTERS

JACK & HEINTZ INVERTER #AN-3532-2 INPUT 27.5 VDC @ 20 AMPS. OUTPUT 115 VOLT 400 CYCLE, 3 PHASE, 250VA VOLTAGE REGULATED. SIZE: 12x7½x4½; WT: 20 LBS. FED#6125-617-0967

Used, $18.95

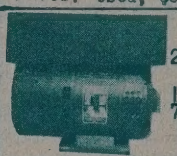
PU-7 INVERTER

INPUT: 28 VDC 160 AMPS. OUTPUT: 115 VAC. 400 CYCLE 21.6 AMP. 1 PHASE SIZE 19½x8x10½; 100 LBS. PRICE: UNUSED $49.50

GE #5D21NJ3A INVERTER, INPUT: 27 VDC 35 amps OUTPUT: 115 VAC 400 Hz 1 Ø 485 watts. 8.5x5.8" dia; 15 lbs sh. Used. $34.95

MG-149H INVERTER

INPUT: 24 VDC 36 A. 750 VA. OUTPUT: 115 V. 400 CYCLE 1 PHASE 500 VA & 26 V. 400 CYCLE 1 PHASE 250 VA. SIZE: 12x8½x8; WT: 25 LBS. PRICE: Used, $39.50



INVERTER INPUT 27.5VDC 60A OUTPUT 115 V 400 CY 750 W 3 PHASE 26 V 400 CY 50 W 1 PHASE SIZE 11x10x6; WT: 40 LBS. LELAND#10285 USED $34.95

WINCHARGER 51S1 DYNAMOTOR on 15x9½ base. Input 26 VDC 22 amps; output 1500 VDC 200 ma and 330 VDC 100 ma. 44 lbs sh. Used, $20.

DM-42 DM-42 DYNAMOTOR; INPUT: 12 VDC 39 AMPS. OUTPUT: 1030 AND 515 VDC @ 215 MA. 7x7x11; 42 LB. RECOND. $15.

#LV-DYN/T195, input 10 amps output 250 VDC 300 ma, -45 VDC 10 ma, and 115 VAC 30 VA 400 Hz. 8½x3 d. $25.

JACK & HEINTZ F-132 INVERTER INPUT 27.5 VDC @ 100 AMPS. OUTPUT 115 V. 400 CYCLE 1500 VA 3 PHASE SIZE: 16 x 11 x 7; WT: 55 LBS PRICE: USED $75.00

#S6LG-3927 INVERTER, INPUT: 24 VDC 9 amps OUTPUT: 115 VAC 400 Hz 3 Ø 100 watts. 4.8x7.8x5.8; 9 lbs sh. Used, $12.95

DC GENERATOR

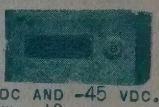
DC AIRCRAFT GENERATOR, 30 VDC 300 amps from 3000/8000 RPM; 1" lg hollow shaft 1" O.D./0.63" I.D. 13x6.3" dia 70 lbs sh. #A28A8584, $39.50

12 VDC 4/8 AMP

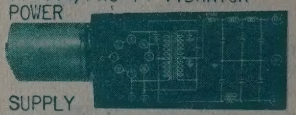
PP-4887/UGA-8 SOLID-STATE POWER SUPPLY, consists of two independent modular power supplies: on Dressen-Barnes #27544 rated 12 VDC 8 amps out; the other D-B #27543 rated 12 VDC 4 amps. Info to modify for 10-15 V out included. Terminal for + or -12 V out. Requires 103-127 or 206-254 VAC 47-400 Hz. Front has fuse and On-Off switch. 5.3x19x8, 36 lbs. Unused $50.

#27543, 12 V 4 A only, $24.

#27544, 12 V 8 A only, $38.



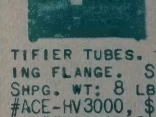
PE-104 POWER CONVERTER. 6 OR 12 VDC INPUT, OUTPU 90 VDC, 1½ VDC AND -45 VDC. SIZE: 4x4x7; WT: 10 LBS. NEW $3.95 W/EXTRA VIB. $4.95



PP-855/PRC-14 VIBRATOR POWER SUPPLY WITH FILTER NETWORK. 6 VOLTS DC INPUT, 5.35 AMP OUTPUT 135 VDC @ 155 MA. SIZE: 7½x2⅞x2½; WT: 3 LBS. NEW $4.95

PP-1234/U 115/230 VAC POWER SUPPLY for URM-32 freq. meter; output 180 VDC 20 ma, 6.3 VAC 1.1 amp. Xformer 460 VCT 20 ma, 6.3 V 1.25 A.; Choke dual 20 Hy 20 ma. W/6X4 tube. 12x3½x12 12 lbs sh wt. Used, $14.95

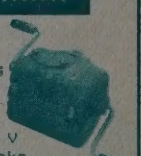
HIGH VOLTAGE



ACE HIGH VOLTAGE POWER SUPPLY; OUTPUT: 3000 VDC 50 UA APPROX. INPUT: 115 V. 60 Hz. USES TWO 1B3 RECTIFIER TUBES. WITH MOUNTING FLANGE. SIZE: 6x7x2; SHPG. WT: 8 LBS. UNUSED. #ACE-HV3000, $5.95

SPECIAL!! 2 FOR $10.00

HANDCRANK



SN-58 HANDCRANK GENERATOR for GRC-9 radio set; outputs 6.3 V 2.45 A, 1.4 V 450 ma, 425 V 115 ma, and 105 V 32 ma; with cranks, support legs and seat. 39 lbs sh; used $35.00

PP-18 CONVERTER 12 VDC 4 AMP TO 24 VDC 1.5 AMP. PARRALLEL FOR MORE CURRENT. WITH VIBRATOR ALSO PLUG

SIZE: 6½x5½x8½; WT: 10 LBS. NEW $4.95

TUBE SOCKETS

4X150 SOCKET PAIR f/ T-195 xmitter modltr 4½x3x2½, #T195/4X150 Removed, ~~$12~~ $10.

4-125A
4-400A
CERAMIC SOCKET, 2-7/8" square; removed from equipment. JOHNSON 275, $6.50 each.

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EIMAC SK-600 or similar socket for 4X150 or 4CX250, used $10 ea

OCTAL MOULDED 2 HOLE MTG.$ .35
" " RING " .35
" CERAMIC (SPECIFY) .60
LOCTAL MOULDED 2 HOLE .35
CERAMIC TYPES 4,5,6 & 7
CONTACTS STANDARD SIZES .65
MOULDED TYPES 4,5,6 & 7
CONTACTS, STANDARD SIZES .45
MINIATURE MOULDED 7 & 9 .35

SHIELDS FOR MINIATURE TUBE .40

GIANT 4 CONTACT CERAMIC FOR 211/VT-4C, 872 ETC.
GE#ML7461594-G1 USED .49
GIANT 4 CONTACT CERAMIC FOR 715,718 ETC. JOHNSON 234 TYPE STK.#227684.98 UNUSED $1.25
CERAMIC FOR 829 ETC. used 1.25
" " 832 ETC. used 1.25

CERAMIC for 811/866 used $1.50
CERAMIC f/813, #122-237 NEW $5.

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JOHNSON CERAMIC SOCKETS, unused
#214 for 750TL/1500T etc $2.
#244 for 8008 etc. $2.00
#247 for 829B, 7094 $2.00

EIMAC SK-113 GETTER CLAMP f/4" dia tube base NEW $45
#122-101-207 for 826/829/832/4D32; VHF septar, $3.25

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NATIONAL HX-100 5-pin jumbo ceramic socket for 803 & similar, $6.

TERMINAL BLOCKS--TELEPHONE TYPE

#TT4X10F4A, 4 rows ten terminals each; total 40. Size: 3½x3x2; unused $4.25
WE 4x10, used $2.25
#660069, 3 rows 26 removable terminals; 78 total. 7x2½x3 $4.50

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WE 2-rows 25-term; used $2.
4E9865 40-term, flat mt.$2.

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879-9661 3 rows of 30 terminals one side wire wrap. size 8-7/8x2-3/4x1-3/4 $3.50

AIRCRAFT STYLE TERMINAL STRIPS
AN-3436-2-6 6 term. 4x7/8x11/16 6-32 studs on 19/32 centers .55

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AN-3436-4-16/10 term. 12½x1x1 10-32 studs on 3/4 centers $1.25

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5BK-22 BOX Consists of 3 AN-3436 terminal strips 13 term. each & 2 AN-3436 9 term. ea. The 10/32 studs extend thru. the phenolic board and have solder terminals. Board size 5½x8½x2; 4lbs $2.75

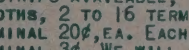
RF TAP SWITCH

5-POSITION CERAMIC TAP SWITCH for 100 W WW-2 transmitter; 2.3x2.3x1.8, 1 lb sh. #3Z9605 unused, $3.95 10/$32 100/$265.

TERMINAL STRIPS WITH CLIPPED WIRE

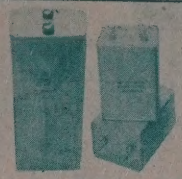
BARRIER TERM. STRIPS AVAILABLE, 3/4,1 & 1½" WIDTHS, 2 TO 16 TERMINALS. TWO TERMINAL 20¢,EA. EACH ADDITIONAL TERMINAL 3¢. WE WILL SHIP CLOSEST TO YOUR ORDER.

HEAVY DUTY TERMINAL STRIPS.



APPROX.2"WX1½D.
6 TERM. 4½LG$1.50 12 TERM. WITH
8 " 6 " 2.00 SCREW DOWN
12 " 8½ " 3.00 HOLDER TYPE$4

Capacitors



ENERGY STORAGE
1500 VDC 45 MFD, 6x3.8x4.5 7 lbs $12.

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25.6 MFD 1 KVDC, 2 KV int. 6.5x3.8x3.3, 6 lbs, $9.00

MFD	VDC	SIZE	PRICE
4	400	2½x4x1	$.75
2	600	2½x2½x1	.75
4	600	3½x2½x1½	.95
6	600	4½x2½x1½	1.20
7	600	4x4x2	1.35
10	600	5½x3½x1½	1.65
1.5	1000	4x1½x1	.85
2	1000	4x1½x1	.95
4	1000	4½x2½x1½	1.35
10	1000	5½x3½x1½	2.50
2	1500	4x2½x1½	1.15
4	1500	4½x3½x1½	1.95
8	1500	5½x3½x2½	3.00
10	1500	5½x3½x3	4.00
4	2000	5x3½x2½	4.00
1	3000	4½x3½x2½	1.25
2	3000	5½x3½x3½	2.00
0.84	4000	5½x3½x1½	2.25
2	4000	7½x4½x3½	4.75
3	4000	9½x4½x3½	7.50
2x0.1	4500	5½x3½x1½	1.50
0.65	12500	14x8x4	12.00
0.75	20000	16½x16½x4½	$22

COMPUTER GRADE

MFD	VDC	SIZE	PRICE
23000	7	5½x1½	.60
	Bank of five		2.25
61000	10	4x2½	1.50
150000	10	5½x3	3.25
28000	15	4½x2	2.00**
73000	15	4½x3	3.00
5200	20	3½x1-3/8	1.25**
40000	20	4½x2½	2.75**
52000	20	6x3	2.85**
18000	25	4½x2	2.00**
16500	30	4½x3	2.00
25000	30	4½x3	2.25
54000	30	6x3	4.00**
18000	35	4x3	2.50
25000	35	4x2½	2.75
37500	35	6x3	3.75
9400	40	4½x1½	2.00
51000	40	5½x2½	4.15
20000	55	5.75x3	3.25
1000	50	3½x1½	1.20**
23200	50	4x3	3.25**
3500	55	4x3	2.00**
11000	60	4x2.5	2.65
58000	20	6x3	2.20**
22000	75	5x3	5.25**
950	75	4x3	2.00
15600	75	4½x2½	4.50
5200	200	6x3	7.50
1400	99	4x2 dents	1.00**
2700	300	5½x2½	5.00**
900	165	4x2 dents	1.00**
1250	180	4½x2½	3.00**
500	200	4x2 NEW	2.25
500	200	5½x3	1.00**
1700	200	5½x3	3.80
1000	350	5½x3	3.75
5200	200	6x3	7.50

** marked, take 25% OFF.

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BUY 5 COMPUTER GRADES of SAME rating, take 20% off.

0.012 MFD 25000 VDC Cornell Dublier BT-14; 15-1/4"L X 1-3/4" dia, 3 lbs. $15.00

MICA CAPACITORS used in RF power circuits. JAN CM-size less than	MFD	WVDC	CM
	.01	600	55
	.02	600	55
	.022	1200	60
	.01	1200	
	.005	1200	
1½x1-3/8	.0002	2500	

$1.25; 5/$5. 35 pf 3500 55
F3L size 0.007 mf 5 KV, $12

COMPUTER GRADE ASSORTMENT, 10 capacitors in ranges 5-30 VDC 1K-50K mfd; takeouts Approx 10 lbs, ~~$5.00~~ $4.00

ROTARY SWITCHES

1-POLE 17-POSITION, 2¼" dia bakelite; 3/8x¼" dia shaft. CRL #PA3001 NEW $1.95; 2/$3

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ROTARY SWITCH, 2-DECK. ONE 4PDT MOMENTARY BOTH SIDES; OTHER 2PDT MOM. B.S. AND 1PST MOM. 1-3/8" DIA.; CERAMIC. #3Z9825-20, $1.00

MINI-ROTARY, 1-pole 3-pos. shorting. 1" dia; 1/8" dia shaft. No hardware. #LED-M13-S, unused, 75¢

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THUMB-WHEEL WAFER SWITCH, 18 POSITION,NUMBERED, 2 HOLE MTG. HORIZONTAL OR VERTICAL, 2⅜x3/8" # 960 NEW $1.25
SAME AS ABOVE 10 POSITION 2⅜x3/8" #980 NEW $ .75

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2-DECK 5-POS w/OFF-ON switch 2/SPST 8 A 125 V. 2½x1½, ¼" d shft. #2D5PSW $3.

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MALLORY NON-SHORTING TYPES: #3254J 3-circuit 4-pos $1. #3243J 4-okt, 3-pos., $1.10

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2-DIGIT THUMB SWITCH 00 to 39; can be modified to 99 but one digit has 1-pole 10 pos wafer, other binary code output. Digitran Serie 23000; 1x1½x1⅜. NEW $1.75

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Rotary switch one deck 17-position, one tie deck.1½" x1. silver pl. SW-249 $2

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1-POLE 12-POS non-shorting; 1½" dia X 2" lg shaft. Mallory #3211ZJ NEW $1.25

DAVEN SWITCH

18-POSITION, CONTINUOUS TURN, 2" dia. Zinc-silver contacts. ⅜x¼" dia shft. #3Z9825-92.2 Unused, $3.00

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Miniture tap switch 1 pole 7-position rated 1 amp. 1x½". Grayhill 7 pos. $2.00

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CERAMIC TWO DECK, 1-pole 4-position/deck (90 throws); 2x¼" dia shaft, 1⅜" dia wafers. #83-2-1P4P, $1.75

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Ceramic 5 pole 3-position, 2 deck rotary 2"x1½". used Re-moved S-602/13 $1.50

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Ceramic 1 pole 12-position rotary sw. 1½" dia. w/stop. re-moved S-601/13 $2.00

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3-DECK 1-POLE 11-POSITION/deck; 1-3/8" dia bakelite wafers, ¼" dia shaft. #5930-544-2513, unused, $2.95

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DUAL CONTROL SWITCH, ¼" dia outer shaft switches 1-pole 4-position rotary; 1/8" dia inner shaft adjusts 50K ohm pot w/on-off. #3540 NEW $2.

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ANTENNA CIRCUIT SWITCH

100 WATT
3/MAKE
3/BREAK
SIZE: 4⅜x2⅜ IN.
#3Z9626
$2.50

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CERAMIC 2-pole 4-position; 1-5/8" dia, 1"x1/4" dia shaft. #SW-1064-4 NEW $2.25

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CERAMIC 2-DECK, 2-pole 6-position ea; 1.5"x1.3" dia, 3/8"x1/4" dia shaft. #5821-955-5532, NEW, $1.95

Parts Kits

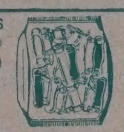
DISC CERAMIC CONDENSERS 33 ASST. 15MMF-.01MFD. Good Value $1.25 a KIT

HARDWARE ASSORTMENT from electronic equipment such as washers, screws, rivets, nuts, terminals; 2 lbs $2.00

MICA CONDENSERS 25 ASST. 10 MMFD To 6800 MMFD. $1.00 a KIT

TRIMMER CONDENSERS 25 ASST. 3 to 280MMF WIDE RANGE $1.00 KIT.

PRECISION RESISTORS 25 asst. on boards. Carbon or wire wound 1%. $1.50/kit



RESISTORS WIREWOUND 25 ASST: 5 to 20 Watt.Wide range of values some tapped.25 ASST $1.00

VOLUME CONTROLS 10 ASST. Popular Values $1.00

TUBE SOCKETS 20 ASST. Octals Loctals Minatures Wafers etc $1.00

PILOT LIGHT SOCKETS 25 ASST Bayonet Screw etc. $1.00

TERMINAL STRIPS,Tie lug strips,ASST types. 25 for $1.00

TERMINAL LUGS,ring spade,crimp types.Wide variety of sizes for all uses in plastic box, APPROX. 200 PCS.$2.00

ROTARY WAFER SWITCH six different types Multi-decks and contacts $1.25

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BATHTUB CONDENSERS KIT .1 to 1 mfd up to 600 VDC. Various types 10/$1.

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MORE CAPACITORS
Polystrene 100/$15:
.01 uf 200 V, 4/$1.

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CENTRALAB 957 HV DOORKNOB CAPACITOR. 40 pf 15 KV; used $3

AC CAPACITORS

MFD	VAC	SIZE	PRICE
4	220	4½x1½x1	$1.00
14	220	4x2x1½	2.25
47-58	220	4½x2 dia	2.25
3.9	330	4x2x1	1.00
4	330	6x2½ dia	1.00
7	330	3½x3½x1½	1.35
17.5	330	5½x2½x1½	2.50
12.5	360	4-3/8x2½x2	2.00
2	440	2x2x1½	1.00
30	440	5.3x4.5x2.8	4.50
48	480	10½x4½x3½	8.00
21	525	6½x3½x1½	4.00
18	600	4½x4½x2½	4.00
4	660	3½x3x2	1.25
6	660	5x5½x1⅝	1.50
1.3	950	5½x4x1½	3/1.00
.05	2500	2½x2x1½	.65
1.3	4000	8½x4½x3½	4.00

ELECTROLYTIC (E)/PAPER (P)

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6800uf 16 V axial (E) 4/$1
450 uf 25 VDC (E) 50¢ 5/$2
1000 uf 25 V axial (E) 50¢
1500 uf 63 V axial (E) 75¢
50-30 uf 150 V (P), 2/$1.
30-30-15 mf 150 V (E) $.65
80-40-20 uf 150 V (P) 2/$1
250uf 150 V axial (E) 2/$1
25-25 uf 200 V (E), 45¢
60 uf 250 VDC (P), $.75 ea
160 uf 250 VDC (P), $1.10
160-240-240 uf 200 V $1.65
140 uf 300 V axial (P) 85¢
50 uf 350 V axial (P) 65¢
90 uf 450 V (E), used, $1.
30 to 40 uf 500 V (P)$1.25
0.01 uf 7500 V (E), $3.50

160-240-240-5 mf 200 VDC case ground; (E), $1.00

1 KV DISCS: 7/$1. 1C/$6.
UF: .0001 .0002 .002

TANTALUMS, 35 VDC PCB-type
4.7 or 6.8 uf 4/$1 1C/$20
40 uf 25 V, 2x3/8, 2/$1.
47 uf 20 V, ¾x½, 45¢
20 uf 50 V, 1½x3/8, 2/$1.

RESISTORS

3/5 W, 20¢ EA; 10/25 W, 30¢

0.5	"	10	"	"
2.0	"	10	"	"
2.43	"	3	"	"
10	"	8	"	" 30¢
24	"	5	"	"
70	"	5	"	"
100	"	5	"	"

BLEEDER RESISTORS

3900	"	25	"	, FERRULE
1000	"	25	"	, WW
15K	"	10	"	, "
15K	"	3	"	, "
100K	"	3	"	, CERAMIC

1.6 OHM 220 W, 5%, $1.50
0.05 " 105 W, 5%, 4x1, $1.

PRECISION RESISTORS
5K OHMS ½ WATT, 0.1%, 60¢
7.5K OHMS, 0.333 WATT, 0.25%, WIREWOUND, 40¢ EA.
28K OHMS ½ WATT, 0.05%, WIREWOUND, 40¢ EA.
55 MEGOHMS, 10 WATT, 1%, DALE WIREWOUND, $1.00 EA.

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DALE PRECISION POWER RES.
100 WATT 1400 ohms 1%; 3.5x3x1.8, 1 lbs., $2.50
250 WATT 43 ohms 1%; 4.5x3 2.3 (RH-250), 2 lbs, $3.

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50 OHMS 50 W, 4x5/8, $1.25

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25 OHMS 100 W 5% Dale $1.50
1 OHM 130 W, 5% Dale, $2.25
1K OHM 160 W 12x1.3" $1.65

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260 ohms 5 watt 1%, 2/$1.
4K ohms 3 watt, 1% 2/$1.00
5K ohms 100 W, 6½x1½ $1.25
75 ohms 50 W, 5%, 4x5/8 $1.

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SLIDER VARIABLE WW RESISTOR
15 ohm 35 watt, 10%, $1.00
10 ohm 75 watt Ohmite $1.50

MINIMUM ORDER $5.00

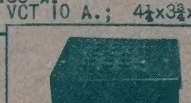
HIGH VOLTAGE TRANSFORMERS

PRI	HZ	SECONDARY	SIZE	WT	STOCK #	PRICE
117v	60Hz	375v 40MA 2/6.3 .6A	2⅝x4x2½:	4LB	#24003	$3.95
105/115/125		780 VCT 65 ma	5⅜x5¼x4¼	15	#A3499	$5.95
200/225/250	60 Hz	6.3 VCT 4 A, 5 V 2 A				
115	60	350 CT/26 MA 5/3.0 A	2⅝x3⅛x3	4	647-6762	3.95
115	60	1470 VCT 126 ma (2640 MWV), 6.3 V 2.5 A, 6.3 V 0.4 A.	5x6⅜x4½	16	#556-9885	$14.95
115/230	60	750 VCT 110 ma 6.3 V 3.6 A, 5 V 2 A	4⅛x5½x4½	9	TF1AU3YY/ SC15	7.95
115	60	110v100MA,50VCT .5A,25VCT,.15A. 14VCT 2.5A.	4½x3⅜x3⅛	10	KAL#2334	6.95
115	60	289 V 200 ma 207 V 125 ma, 6.3 V 1.4 A, 6.3 V 9 A	5.5x4.6x4	14#	#PB146/510	$8.95
115	60	2400 V, 2/2.5 V 2 A 4.3x4x3.5 7 lbs; 2800 VDC 5 ma in 2X2 circuit. Stancor P8151				$9.95
108/115/121	VAC 60 Hz	700 VCT 50 ma 5 V 2 A, 6.3 VCT 3.5 A	3½x5x3⅜	11 lbs	#12314	5.95
115	60	820 VCT 120 ma 5 V 2 amps	4½x4½x4	10	#7629831	6.95
115	60	1000 VCT 220 ma 2.5 VCT 5 A, 5 VCT 3 A (1750 V insul)	5x4½x4	20	#T1/610	$10.95
120	60	6.4/1A 3/6.4,.3A	2½x3x2	1	645-0612	2.25
115/60Hz		360VTAPS/7/332/346v.125MA 6.6VCT 4.2A	4x5x3½;	12LBS.	#7489394	$3.95
115/230	60	175 V 85 ma or 50.8 V 95 Hz vibrator input	2⅜x4½x2½	5	#2Z9612-382	4.95
115	60	434 VCT 170 ma 26 V tapped 6.3 V 2.2 A, 5 V 2 A	4x3.6x4.9	8	#2Z9619-284	$7.95
115/60Hz		700VCT .050A 5v3A	4⅜x3½x3;	9 LBS	#TF1A03Y	$3.95
115 V 60 Hz		650 VCT 20 MA; 6.3 VCT 2.5 A,	3⅜x2⅜x4½,	10	#8734,	$2.95
115	60	6760 V 60 ma (25 KV test, insulators 3½" high)	11½x8x6	35	#1000A-358	$25.
115	60	2/550 V 40 ma (tapped @ 280 V)	3.8x3x2.3	4#	GE#68G80	$4.95
115	60	865 VCT 120 ma	4.8x4.3x3	9#	GE#68G81	$7.95
115	60	570 VCT 40 ma (220 VCT 65 ma int), 6.3 V 3 amp	3.5x3x2.8	5#	#T1/TA182	$4.95
115	60	600 VCT 150 ma 500 VCT 100 ma, 6.3 VCT 3 amp	5x4.5x3.8	10	#MB1281	$5.95
115/230	60	380 V 600 ma 230 V 15 ma	3.8x3.8x4.7	11	#TF2RY02ZZ	$14
115/230	60	600 VCT 60 ma 6.3 V 5 A	4.3x3.5x3	8	#T1/T6-34	$6.95

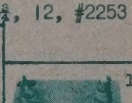
LOW VOLTAGE TRANSFORMERS

PRI	HZ	SECONDARY	SIZE	WT	STOCK #	PRICE
115v	60Hz	6v/1A 45VCT/.5A	3x2⅛x2⅛	2LB	#1461312	$2.95
115/230	60	12.6 VCT 1.5 A	2⅛x2⅛x3	3	#519-8787	$3.95
115v 60hz 6.3v@15a/two 6.3v@.6/two-5@6a./5@2/5@3			5¼x4x3½	11 lbs	#4094	$20.00
115	60	27 V 4.3 amp, 2.6 V 3 A, 4.1/5/6.3 VCT 3 amp	5x5x5	15#	D161915	9.95
117v 60hz 55v @ 60ma			3⅜x2⅛x2⅝	4lb	5950-8419	$2.95
115	60	2/5 V 3 amp	4⅜x4x2⅜	5	#2-5V3A	$4.50
115v 60hz 6.5vct@24a/ 6.5vct@1a/two 6.5vct@6a			6x5x4½	20 "	647-6219	$9.95
220v 60hz 2.5vct@ 5vct @ 3a			4½x3⅜x3½	9	THER-8708	$3.95
115	60	6.5 VCT 11 A, 6.5 VCT 6.2 A, 5.2 VCT 4.4 A, 6.5 V 7.8 A	4⅝x6x3⅜	16	#FT2550	$8.95
115	60	24 VCT 50 VA	2⅜x3x2	3	#BE11269001	$5.50
115	50-400	34/2.7 A 3.0/250 MA	4⅜x4⅜x4	14	853-6026	$4.50
115	50/60	5 @ 1.5 A 5 @ 1.0 A	RD.4x2⅜	6	869-2849	$4.95
120v 6		3/6.3VCT .6A	2⅜x3⅛x2⅜	LB	TF1A01YY	$2.95
115	60	2.5 V 10 A 10 KV insl	4⅜x3⅛x5	8	#2Z9611.144	$8
117	60	3!v@3.27A,!5.5v .5!A,23vct@.2!A. 24v @ .85 A.	3½x4¼x4¼	10	5950-9195	$3.95
215 V 60 Hz		2.5 VCT 10 A.;	4½x3⅜x3½,	12,	#2253	$2.95

AUTOTRANSFORMER, UTC #R-44 220/240 V to 110/120 V 50/60 Hz 250W on box w/4-breakers, relay, flange mount. O/a 6¾x10x4⅜, $9.



PRI: 115 V 60cyc
SEC: 850CT 280MA
280CT 10MA
5 v 5 A.
6.3 v 600MA
36 v 5 A.
5⅜x5½x7½; 28 LBS.
#5950-646-3943
$6.95



115 VAC 60 Hz PRIMARY
Sec: 512 VCT 90 MA
3x3⅜x2½
4 lbs. #SMB-202958
Used, $4.50
#SMB-202912, 448 V CT 20 ma; 2x3⅜x2½ 3 lbs. Used $2.50

Pri: 115 VAC 60 Hz
Sec: 375 VCT 90 ma
2.5 V 10 amps
5 V 2 amps
6.3 VCT 10 A
2.5 V 10 amps
5x4½x3⅜, 10 lbs sh
#TF1RX03YY/141 $7.

Pri:115v50/60hz
Sec:1860vct @ 130 ma. 1500 wv
5⅜x4½x4⅜; 18 lb
SMB202-909 $15

Pri:115v50/60hz
Sec: 2340 vct @ 245 ma. 3940 wv
350 v. @ .016a.
7½x5x6½; 35 lbs.
SMB202-907 $20

Pri: 115 V 60 Hz
Sec: 1120 VCT 400 ma, 950 VCT 150 ma. 6⅜x5½x8,
38 lbs. #TRC-29/
SMB-20291 $16.95

POWER SUPPLY TYPE 115 VAC 60 Hz primaries Unused

#BE12696: 18 V 1.5 amp, 19 V 2.5 A, 10 V 4 A; 3x4x3⅜, 7 lbs sh. $4.95
10 for $45.00

#PT-09: 48 VCT 2.5 amps; 3⅜x3⅝x3, 6 lbs sh. $5.95

#SR-448: 36 VCT 2 amps; 3.5x2.9x2.3 3 lbs. Used $4.95

#TRA-1577: 15 VCT 3 amp, 5 V 1 A. 2⅜x3 x2⅜, 4 lbs. $3.95

#EMC-56: 50 VCT 3A 3½x3⅝x3⅝, 8 lbs. $5.95 ea; 10/$54.

10V. 75 A

Pri: 220 VAC 60HZ
Sec: 10 VCT 75A.
Requires 6 mfd capacitor 660 AC
6½x4½x5½; 24 lbs.
#NE6114781 $18.95

PRI: 115v 60 CYC
SEC: 2 v. 30 AMP
3x3x4; 4LB
5950-829-8618$2.95

FOR RA-62 RECTIF. USED TO POWER SCR-522 REC-TRANS
PRI:110/220 VOLT 40-60 CYCLE
SEC: DC VOLTAGES
300 @ 230 MA
BIAS 50 @ 8 "
13.4 @ 3.9 A.
5x5½x8; 30 LBS.
#3340-296-862-192
PRICE: $7.95

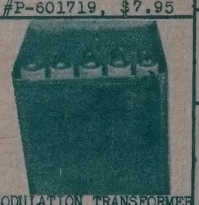
ART-13 MODULATION

ART-13 MODULATION TRANSFORMER 50 WATT 300-4000 RESPONSE ± 2DB, PRI. TO SEC. 1:1/.695, PRI. TO SEC. 2.1/.254, Z PRI. 15000 Z SEC. 7300, TEST 4000 v. 4½x3½x2⅝; 4 LBS. COLLINS#677N252 RE-MOVED $3.95

PRI: 115 v. 50/60
SEC: 3/17 v. 5 AMP 28 v. 10 "
WITH CAPACITOR
REQ. VENTILATION
4½x5½x7⅜; 20 LBS.
GE- 9T91A4074
~~$11.95~~ $8.95

PRI: 115 v. 50/60
SEC: 100 VCT 1.5A
20 " 3.0A
2/20 v. 3.0A
35 v. 5.0A
WITH CAPACITOR
GE-9T91A4069
REQ. VENTILATION
5½x6x7½; 23 LBS.
~~$7.95~~ $5.95

Pri: 115/230 VAC 50-60 Hz
Sec: (12 V 14 A. by wiring 12 V secondaries in parallel) or 12 V 9 A, 12 V 3.2 A, 12 V 2 amps; also 44 V 2.5 amps.
5¼x4½x4½; 22 lbs
#P-601719, $7.95



MODULATION TRANSFORMER
100 Watt
RESPONSE 200 to 5000
PRI: 7000 SEC: 7000
F/BC-191/375 TRANS.
Size 3x4x5 WT. 5½ lbs.
Stock # 2e6191/T1
Price $3.95

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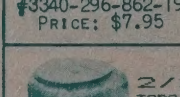
100 WATT MODULATION TRANSFORMER
PRI: 7500 OHM CT 30,000 "
SEC:3000 OHM 35W 200 MADC 600 CT. 1 W
RMS TEST 1,2,3 500 v.
OTHERS 2500 v.
200-3500 CPS.
4¼x4⅜x4½; 11LBS
#5950-646-3092
PRICE: $4.95



2/20 V 12 A
TOROIDAL-STYLE, 4.5" dia 115 VAC 60 Hz primaries: #5027-P1S03 with secondaries 2/20 V 12 amps, 50 VCT 2.5 A; 2.5"H, 8 lbs sh. NEW, $16.95

TRANSFORMERS LISTED BELOW HAVE 115 VOLT 60 HZ PRIMARIES UNLESS OTHERWISE STATED

Sec: 18 V 5.4 A, 26 V 1 A, 6 V 900 ma, 25 V 500 ma, 35-10-0-10-35 V 5 A. 4⅜x4½x4, 16 lb #401-21 unused $8.95

Sec:40v 2.5A/6.3v 1.5A 3⅝x3½x5¼; 10 LBS. #43278 $4.95

Sec: 250 V tapped 50 V 120 ma, 4 KV test. 4x6⅜x3⅜, 9 lbs sh. #BP-18587 used $6.95

Sec: 30 vct 560 ma 40 vct 450 ma 2⅝x2½x2; 2 lbs. #401-6 $3.00

Sec: 450 VCT 250 MA. 40 VCT 1 A. 2/6v 1A SIZE:3⅝x3⅝x4½; 9 LBS. URC#702-704-00 $6.95

Sec:50v@100MA/3v@100 MA/40v@1.5A/40v@200MA SIZE:2½x2⅝x2½; 2⅝ LB. URC#372993-1 $3.95

STANCOR PLATE XFORMERS
115 V 60 Hz pri; NEW:
#P8338, sec 630 VCT 310 MA, 5 V 6 A, 6.7 V 10 A, 6.4 V 1.6 A; 3.9x 4.5x5, 14 lbs. $14.95
#P8355, 570 VCT 250 ma 6.3 V 9.5 A; 5 V 3 A 3.4x3.8x3.5, 8#. $10.
#P8339, 650 VCT 255 ma 12.6 VCT 5 A, 5 V 3 A 3.8x4x4.9, 10# $12.00

CHARGER TRANSFORMER, 230 VAC 60 Hz primary with 8-taps to produce 12 to 40 VCT 50 A secondary; usable on 115 VAC input with reduced output. 5¾x6⅜x6½, 33 lbs. #XJ-885/240 $32.

Pri: 115 VAC 60 Hz
Sec: 24 VCT 50 amps
5¾x6⅜x5⅛, 28 lbs sh.
#RAY3001, NEW, $36.95

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24 VCT 35 A

Pri: 115/120/125 VAC 60 Hz 1 Ø
Sec: 24 VCT 35 AMPS
5½x5x4, 19 lbs sh wt.
Wabash #4429 NEW $30.

2/20 V 5 A

TORROIDAL-type, 4.5" dia X 1.6"H; 115 VAC 60 Hz primary. Sec: 2/20 V 5 amps; 4 lbs
#4365-P1S2 NEW $8.95

Pri: 115 VOLT 60 HZ.
Sec: 130 VCT @ 200 MA
SIZE:3⅜x2⅛x2½; 2 LB.
URC#8316423 $2.50

Sec: 26.8 vct 1 A. 2⅛x 2x2½, 2 lb. #401-17 $3.

Pri: 210-250 v. 50/60
Sec:13.7 v. @ 1 amp.
6.3vct @ 4.75 amp
4⅛x3⅛x3⅜; 10lb
2Z9600-84 $10.00

Pri: 220/220 VAC 60Hz
Sec: 260 VCT 200 VA
4½x4x6, 17 lbs sh wt.
#8034, unused, $9.95

Sec: 175 VCT 100 MA. 75VCT 200 MA. 80 VCT 100 MA. & 5 V. 200 MA. SIZE:3x2⅛x2½; 2 LBS.
URC#720660-1 $2.95

Sec: 400 VCT 100 ma, 6.3 V 2 amp; 3.4x2.8x2.3, 3 lbs sh
#TP-1014, $4.95

Sec: 40 VCT 1 A, SIZE:3⅜x1½x2; 1½ LBS.
URC#56000 $2.95

Sec: 24@2A/6.3@100MA 24@100MA. SIZE:3⅜x3x3 4 LB. URC-LT-646$4.95

Sec: 30 VCT 200 MA, 45 VCT 100 MA/2.5v30M/ SIZE:2½x1¼x2; 1 LB.
URC#374501-1 $2.95

SIGNAL TRANSFORMER
Pri: 2/115 VAC 60 Hz
Sec: 2/6.4 VCT 12 amp
4½x3½x3⅜, 7 lbs sh.
#DL-12.8-12 NEW $14.95

2/28 VCT 8 A

Pri: 2/115 VAC 60 Hz
Sec: 2/28 VCT 8 amps. Wire for 56 VCT 8 A, 28 VCT 16 A, or 14 V 32 A. 4½x5½x4⅜, 17 lbs. Signal #DL56-8, $25.

Sec: 125 V tapped 90 volts 3 amp. 4x4½x3⅜, 10 lbs. #225-3992, $12

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22 VCT 3 A. 80 VCT 1.5 A.

Pri: 100,115 v. 60 HZ.
Sec: 22 VCT @ 3 AMP. 80 VCT @ 1½ "
SIZE:3⅜x3x4; WT: 8 LBS
#3S92890015 $4.95

ISOLATION, 230 V 50/60 Hz to 115 V 435 ma. 3½x4x3 7 lb. #3436 $5.

VIBRATOR TRANSFORMER
Pri: 12.6 V 115 Hz
Sec: 160 V 160 ma
2-1/8x2⅜x3¼, 4 lbs
#5950-243-5679, $4.95

Pri: 115 VAC 60 Hz
Sec: 460 VCT 50 ma 6.3 VCT 2 amps
3x2½x2⅜, 4 lb. #7514 $4

Pri: 115 VAC 60 Hz
Sec: 32 V 2.5 amps
3½x3x2½, 3 lbs sh.
Stancor #S811 used $4.

Pri: 115 VOLT 60 HZ.
Sec: 35 VCT @ 1 AMP. 6 V. @ 300 MA.
SIZE:2½x2⅝x3; WT: 3 LB.
URC#134115S-2 $2.50

Pri: 115 VAC 60 Hz
Sec: 45 VCT 500 ma 6 V 500 ma
Size: 3⅜xx2⅜x2⅜; 2 lbs.
URC#203A6725-10 $2.50

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10 VCT 8 A
secondary from 115 VAC 60 Hz pri; 2500 V ins. 3.8x3.1x3,4 lbs.
STANCOR P-4096 $10.95

Sec:500VCT 35MA/24v.9A 6.3v.9A/6.3v .3A/4LBS. 3x3x3⅜;#RM13-317 $2.95

TRANSFORMERS

40 VCT 9 A

22 V 18 A

Pri: 100/115 VAC
Sec: 40 VCT 9 amp, 22 V 18 amps.
5½x6½x6, 32 lbs.
#7213-4112, $15.

As above, but sec 39.8 VCT 8.5 A, 22.7 V 12 amps.
#5602-1500, $12.

Pri: 115 V 60 Hz
Sec: 15 V 3 amps; 13 V 2 A; 6.3 V 7 A.
With capacitor, 4½x3⅝x3½; 13 lbs.
#PV-175-9, $4.95

AUDIO

Pri: 60K/12.5K
Sec: 8/600 ohms 200-3000 Hz 200 MW; 1⅝x1⅛x2½, 2 lb. #T14/R174 $4

Pri: 13000 ohm CT
Sec: 25/1000Ω CT 200-35000 Hz; 3x3⅛x2½, 3 lbs sh. #T2/SG-15, $4.50

Pri: 600 ohms
Sec: 5000 ohms CT 1000-4000 Hz; 1⅝x1x2¼, 3 lbs sh. #2Z9631.248, $3.50

Pri: 350/4000 ohm
Sec: 150, 600Ω CT 400-3000 Hz; 1⅝x1⅝x2⅛, 2 lbs sh. #C-280/RM-39 $3.

Pri: 16000 ohm CT
Sec: 600 ohms CT 1000-4000 Hz; 2½x1 dia. #CV2/T4 $3.50

Pri: 16670/4170/1040 ohms to
Sec: 8 ohms. 60-8000 Hz 4.5 W
#2Z9637.94, $4.

Pri: 7000 ohms
Sec: 4000 ohms tapped 250 ohms; 200-8000 Hz. 1⅝x2x1¼, 1 lb. #247-9266 $2.

DRIVER/OUTPUT AUDIO, Driver : 5650 ohms CT to secondaries 2.6:1 and 40:1 CT. OUTPUT: 5250 ohms CT to 500 ohms & 4 ohms, 8 W. 2⅜x4½x2⅜, 3 lbs. #T504/CV2, $4.

STANCOR

#A3800, primary 5000 ohms CT; sec: 500/250/15 8/4 ohms 30 W. 2.8x3.3x3.5, 5# NEW, $9.95

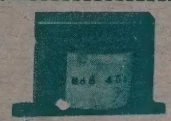
#A3337, primary 5000 ohms; sec 6/8 ohms 10 W. 1.8x2.9x2.4, 2# NEW-boxed, $4.95

INPUT TRANSFORMER
Pri: 150 ohms CT
Sec: 150,000 ohms 100-8000 Hz 1.5mw
2⅜x1-7/8 dia, 1 lb. #5535, $3.50

1-177 TUBE CHECKER TRANSFORMER
SIZE: 4½x4⅜x4, 5½LB
STK.# 2Z9613.667
PRICE: $4.95

Pri: 26/115/230 V 60 Hz.
Sec: 13 v. 8 amps two 230v windings to supply 370 VDC 600 ma.
5⅜x5⅛x5; 22 lbs.
2Z9613.514 $7.95

Pri: 115/230v 60hz
Sec: 12/24 V 4/2 A
2⅛x3x2, 2 lbs sh.
Stancor P6377 $5.



ALL PRIMARIES 115 VOLT 60 CYCLE

Sec: 6v. @ 500 ma. 1⅝x1⅛x1⅛; 3 oz.
URC#137B648 $1.25

Sec: 6.3 v. 1 amp 1⅝x1⅛x1⅛; 4 oz.
BE16073-001 $1.50

Sec: 6.3 VCT 2 amp 2⅛x2x1½, 1 lb.
Stancor P-2945 $3.

Sec: 2/30 v. 250 ma 2x1⅝x1⅛; 4 oz.
URC#160605 $1.50

Sec: 6.3 VCT 1.5 A 2x2½x2, 1 lb sh.
#F-16X, NEW $1.95

Sec: 12 V 2 amps 2x2⅛x1½ 1 lb sh.
#37-7622 NEW $2.25

AUDIO BANDPASS
2320 Hz peak, 1285-4200 Hz Band Width; Pri 600/250 ohms
Sec: 120000 ohms
2½x2⅛x4, 4 lbs sh.
#3Z1892-19, $4.95

MIC TRANSFORMER
Pri: 50 ohms 30 ma
Sec: 500 ohms, 400 to 1900 Hz. 1⅛x1¼ x1½, 1 lbs sh.
#T204/PP-115 $2.00

Pri: 500 ohms CT
Sec: 500 ohms CT, 600-12000 Hz; 2½x2 x2⅛, 2 lbs sh wt.
#T203/PP-115 $2.00

INPUT TRANSFORMER
Pri: 500 ohms
Sec: 20000 ohms CT 150-3000 Hz 0.4 W
1-5/8x2-3/8x1-5/8, 1 lb. #55C162, $3.

LOW VOLTAGE TRANSFORMERS

ALL PRIMARIES 105/110/115 120/125 VOLTS 60 CYCLE.

Sec: 6.6 v. 18 amp 3⅜x5⅛x4; 12 lbs.
GE#9T35Y159 $4.95

Sec: 6.3v 2.75A/6.3 V 5.5A, 2.5 KV test 5½x3½x3 #7629805 $6.

Sec: 17 V 1.5 A, 19 V 1.6 A 2.5x3x2.5, 3#. #54-995, $4.

Sec: 8 V 50 VA; 2⅜x3x2¼, 3 lbs. #9861, NEW, $3.95

Sec: 6.3 VCT 3 A 2.5 KV test 3½x2x2½, 3 lbs. #P-6446 $4.

Sec: 6.3@3.1a/6.3@2.5a/6.3 @.45a/6.3@.30a/2-5.0@2 amp. TF1A01JA $3.95

Pri: 100-130 VAC 60 Hz
Sec: 6.3 V 25 A; 11x5½x5¼, 28 lbs. SOLA #302237, $12.

Sec: 6.3 VCT 5 amps 300 WV; 2⅝x3-3/8x2-3/8, 5 lbs sh. #5950-539-6765 NEW $4.95

Sec: 12.5 V 2 amp, 150 V 2 A; 4⅜x3½x4¼, 13 lbs sh. #773605, unused, $6.96

Sec: 6.5 vct @ 3.4a/6.5vct @ 13.7a/5.2v @ 6.3a/5.2v @ 2.1a. 4⅜x3⅜x6; 15 lbs.
TRC-SMB-202910 $6.95

Sec: 6.3 VCT 3 A; 3x3x2, 3 lbs sh. #F-18X NEW $2.95

Pri: 210/220/230/240v 60 hz
Sec: 5 VCT 10 amp. Stand of insul; 1¼". Wilcox 96C Trans 5x4½x5; 10 lb.
2Z9600.42 Kenyo 10694 $10

Pri: 115 VAC 60 Hz
Sec: 850 VCT 225 ma CT grnd 500 VCT 125 ma, 2/5 V 3 A, 6.3 V 2.5 A, 6.3 V 1.25 A, 6.3 V 11 A; 6⅝x6⅜x5½, 25 lbs. #188-7474, $9.95

Pri: 115 v. 60 hz.
Sec: 900 VCT 130 ma. 5x5x3½; 13lb. 2Z9612-38 $8

MODULATION

Pri: 8000Ω ct 250 ma; sec 2800Ω ct 300 ma. 200 Hz-20 Khz 120 watts. 8x4½x4½ 30 lbs. #T201/MD-141, $12.

Pri: 21000Ω ct; sec 8000Ω ct 250 ma, 150-3000 Hz 250 W 7 KV test. 7⅜x4½x4, 28 lbs sh. #2Z9633/610, $15.

PLATE TO PLATE, pri 15800Ω 4500Ω 900 ma; sec 7500Ω 535 ma, 400-3000 Hz. 11x8⅜ x10⅜ 110 lbs. 568-4831 $36

Pri: 115 VAC 60 Hz
Sec: 6.5 VCT 24 A, 6.5 VCT 6 A, 6.5 VCT 6.5 A, 6.5 VCT 1 A; 6x5x4½, 22 lbs.
#5950-647-6219, $14.95

ISOLATION, pri 115/230 V 60 Hz; sec 115 VAC 1 amp 2½x2-5/8x2, 3 lbs. #A762-101, $6.95 ea; 2/$12.00

ISOLATION TRANSFORMER, 110/115/120/210/220 primary;
Sec: 135 V 1 A 6.3 V 5 amps
Switch taps secondary 150/125/100/75/50 V no load from 115 V input. 3½x2⅝x4½, 7 lbs. #P-126J875, $7.95

HIGH VOLTAGE TRANSFORMERS

DC POWER SUPPLY
PRI: 115v 60 cy
SEC: -8000 v. @.25-1 MA.
-120v @ 15 MA
- 24v @ 1.2 A
-16.v @ .45 A
SIZE:4x4x9½; WT: 15 LBS.
#GE9T63Y2280G03 $14.95

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370 VA ISOLATION

Pri: 100/120/220/240/260 V
Sec: 70-35-20-20 volt. Use secondaries in series for 105-110-125 V 3 amp load, 5 A intermittent. 5.3x4.4x4.5, 17#. #BE16141, NEW $16.95

Pri: 115 VAC 60 Hz
Sec: 900 VCT 250 MA,
4½x4½x3⅜; 15 LBS.
#SS-S-P243, $7.95

Pri: 115/230 v. 60 hz.
Sec: 520 VCT @ 90 MA. 6.3v/1⅜ A. 6.3VCT 4A.
SIZE:4⅜x5⅛x3⅜; WT: 7 LBS.
#TB1RX03LB/FGC-29 $5.95

CHOKE FOR ABOVE 10/25 HY. 125/15 MA. 4½x3½x4⅜; 4 LBS
#TF1RX04LB/FGC-29 $5.95

Pri: 115v 60 hz
Sec: 350 vct 25 ma 5.0 3 amp
3½x3x2½; 3½ lbs
2Z9613.77 $3.95

IGNITION TRANSFORMER
Pri: 115 VAC 60 Hz
Sec: 7000 V 3.75 ma
4x5x4½, 6⅝" mtg; 10 lb
#9T63Y3068G4 used $8.

Pri: 115/230 V 60 Hz
Sec: 920 VCT 100 ma 4/6.3 V 8 amps, 5 V 6 A, 5 V 2 amps
5x5x6, 20 lbs sh.
Paeco #910-96R $12.

STANCOR P8151: 115 V 60 Hz sec 2300 V 5 ma, 2/2.5 V 2 A. 3½x4½x3⅜, 8 lbs $7.95

ISOLATION

DUAL PRIMARY, each 100/110/120 VAC 60 Hz; can be wired for 200/220/240 V input. Secondary 120 V 1.1 amp tapped 100 V 1 A; 8 V 2 A -0-8 V 1 A; and 16 V 1.5 A -0-16 V 1 A. Mounted on board w/AC socket, fused secondaries, diagram. Xformer 5⅜x4⅜x4, 20 lbs sh. #97313, NEW: $12.95 each; 2/$22.00

2250 VCT (1750 V working) from 115/230 VAC 60 Hz primary
565 MA 6½x4½x4½, 32 lbs. #TF1UX02YY used $38.

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335 V 300 MA, 6.3V 3A from 115 VAC 60 Hz pri; replacement xformer for DRAKE transceiver. 3.8x3.3x3, 7 lbs. #17-61914, NEW, $8.95

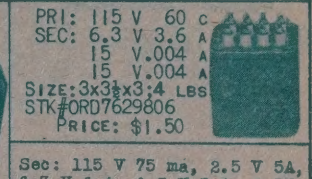
4800 VCT 475 MA or 5670 VCT 321 ma 7500 WV; 115/230 VAC 60 Hz primery. 9½x10½x8¼, 110 lbs. #2Z9621/610, $65.00

CONSTANT VOLTAGE TRANSFORMERS; 95 TO 130 VAC 60 Hz PRIMARY; WITH CAPACITORS. SOLA AND OTHER MFGS. REMOVED FROM EQUIPMENT.

Sec:6.3v@2.38a ac 5½x3⅜x2½; 8lb 581-5333 $5.95

SEC: 24 VDC 5 AMPS SIZE: 4⅝x3½x5 15LB #22661-1 $9.95

SEC:25-27VDC 3.5 A AMPS: 5x3½x4⅝ 11LB #22662 $6.95



PRI: 115 V 60 C
SEC: 6.3 V 3.6 A
15 V.004 A
15 V.004 A
SIZE:3x3⅜x3;4 LBS
STK#ORD7629806
PRICE: $1.50

Sec: 115 V 75 ma, 2.5 V 5A, 6.3 V 6 A, 6.3 V 3 A, 6.3V 1.8 A; 4 KV insulation. 4½x7x6, 12 lbs. BP18585 $8.

STEP-UP/STEP-DOWN XFORMER
Pri: 115 VAC 60 Hz
Sec: 208/220 VAC 150 W; 4½x3⅝x3½ 8 lbs. #SU-SD150 $8.

5030 VCT 500 MA

sec; pri 115 VAC 60 Hz. P/O BC-610E; 12x11x10 115 lbs sh. #2Z9612-1, $67.50

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32 V 3.5 AMP

Pri: 115 VAC 60 Hz
Sec: 32 volt 3.5 amps
Open frame-style. 3.3x2.8 x2.3, 4#. #X5157308 $5.95

TRANSFORMERS

COMMERCIAL GRADE TRANSFORMERS suitable for constructing DC regulated power supplies or other. All 115 VAC 60 Hz primaries; end bell style with wire leads. NEW:

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#757-2658, 80 VCT 1.5 amp (3 A int), 115/230 V pri; 3.8x4x3.1, 9#. $5.95

#TS-465, 44 VCT 3.5 amp, 30 VCT 1.2 A, 9 V 1 A; 4x3⅜x3⅜, 7 lbs. $5.75

#701-221, 46 VCT 3.5 amps, 7.5 V 2 A; 4x3⅜x3¼, 6 lbs sh. $5.95

#TA-600, 48 VCT 3.75 amps, 48 VCT 1 A; 4½x3⅜x3¾, 8 lbs sh. $5.85

#701-129, 50 VCT 2 amps, 6 V 2 A; 3⅝x3⅜x3, 5 lbs sh. $4.95

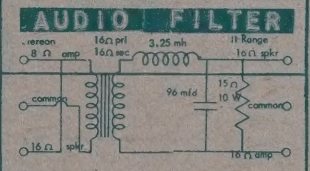
#701-206, 115/230 VAC primary; secondary two 55 VCT 3 A; 4½x4½x3¾, 10 lb

#701-203, 55 VCT 4.5 amps, 7 V 2 A; 4x4x3⅜, 10 lbs sh. $7.95

#701-205, 2/55 VCT 4 A; 4½x4½x4 10 lb. $9.95

#701-206, 115/230 VAC primary, secondary two 55 VCT 3 A; 4½x4½x3¾, 10 lb. $9.50

AUDIO FILTER



ELECTRO-VOICE FILTER EVXX3 is an audio frequency filter which connects two audio amps to two speaker systems. Bass frequencies below 300 Hz are passed to one side of the system and higher frequencies are passed without change to both systems. Eliminates need for two full range systems. 5½x4⅝x5½, 8 lbs. Unused, original-boxed $4. W/water damaged case $2.50

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13 VOLT

Pri 110/120 VAC 60 Hz. Unused: #36218-46, 13 V 12 amp, tapped 8, 10 V; 3.8x4.5 x3.3, 6#, $8.95

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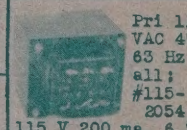
#121080-54 13.5 V 22 amp, tapped 9, 10 V; 4.5x4.5 x3.3, 10# $16.95

PLUG-IN TRANSFORM
PRI:115v 60HZ
SEC:24v 20VA
2⅜x2x2; 2LB.
BE#8002 $1.50



Pri 115 VAC 47-63 Hz all; #115-2054, 115 V 200 ma, 6.3 V 6.25 A; 2⅝x3¼x3 5 lbs sh., $4.95
#435-2054, 435 V 370 ma; 2⅝x3¼x3¼ 8 lbs sh, $7.95
#1000-2054, 869/930/1000 V 300 ma; 3½x4½x4¼, 14 lbs sh., $11.95

Pri: 115 V 60 Hz
Sec: 900 VCT 160 ma; 4½x5x3⅜, 8 lbs. #74618 $7.95

Pri: 115 V 60 Hz
Sec: 900 VCT 84 ma; 5x3⅝x4½, 12 lbs. #746-7167 $4

PRI:115v 50-133cy
SEC:20 VOLT LOAD OR 12.5v @ 2 AMPS MOUNTED ON 4" RD. ELECT. BOX COVER 3x3x2⅜; 2 LBS.
#FR-24960 $1.25

CHOKES

10 HY 500 ma 43 ohm 1000 WV 5½x5x6 24 lbs. SMB202916 $9.

10 HY @ 225 ma 78 ohm 500v 4½x3x5; 12 lb #SC26009 $6

4 HY 650 ma 25 ohm 1.07 kv 6½x5x4¼ 20 lb GE7485547 $9

10 HY 150 ma 130 ohm 1680wv 2½x2½x5; 5 lb SMB-20291594,

2 HY 100 ma 100 ohms 2 KV test; 2x1½x1¾ #T56379 $2.00

6 HY 250 ma 105 ohms 2 KV-T 4½x3½x3, 8 lbs. L123/610 $6

7 HY 200 ma 140 ohms; 3x3¼ x2½, 5 lbs. Kenyon T152, $5

4 HY 550 MA 40 ohms $4.95 3½x4½x4; 7 lb Paeco 911-39

4 HY 250 MA 60 ohms 3000VI 3½x2½x3½;7 lb C-1412 $3.95

4 HY 400 ma 70 ohms 450 Vrms; 3½x3¼x3, 6 lbs. #SMD-422-745 $4.

4 HY 300 ma 70 ohms 1000 V-rms; 3½x3¼x3 #SMD422768 $4.

1 HY 700 ma 11 ohms 1K WV; 5½x3x3½, 9 lbs. L101/141 $3

2 HY 700 ma 23 ohms 1K WV; 5½x3x3½, 9 lbs. L201/141 $4

10-22 HY 40 ma max 1600 V-rms; 2¾x1¾x1¾ 3C570-7 $3.00

20 Hy 16 ma 810 ohms; 3.2x 2.2x2, 2#. SMB202914 $2.75

7 Hy 140 ma; 2.8x3.5x2.6, 4 lbs. GE#806116, $3.50

12 HY 80 MA 375 ohm $1.50 3x2x2;2 lbs. SK1N20C53

150 MA AVAILABLE VARIOUS HY TELL US YOUR NEED.

3 HY 350 MA 30 2K PV; 3½x 4½x2¾, 6 lb. L-225/PP115 $3

3.5 HY 200 ma 90 V 1 KVRMS 3½x4½x3, 4 lbs. #7629828 $3

TUNED REACTOR, 210 mHY 1 A choke in circuit with 8 mf and 4 mf capacitors; switch selects 50 or 60 Hz operation. 1.5 ohms max DC res. 4½x6x4½ 10 lbs. USG3416 $8.

PRI: 60 V 60 Hz. SEC: 2130 V 16 ma, 112 V 4 ma. 4½x6 x4½, 10 lbs. #HA131P $8.95

10,000 VOLT

AMP P/N 845321-3 PRI:115v 60Hz. SEC; 10,000VAC|00MA 5x5x4; 10LBS. $20

SCOPE XFORMERS

ACE HV POWER SUPPLY as on page 10; 3000 VDC 50 ua output from 115 VAC 60 Hz input. Includes 2/1B3 tubes 6x7x2, 8 lbs sh wt. Unused. #ACE-HV3000, $5.95 2/$10.

PRI: 112/117/122v. 60 HZ. SEC: 228v @ 15 MA. 360v @ 125 MA. TAPPED @7v/332/346 6.6 v. 4.2 AMP. 5x3¾x3½; 8LB.2Z913-869 $5

HV OSCILLATOR TRANSFORMER f/HP-160 & USM-105A scopes; used with 50 Khz 6AQ5 oscillator. Two HV windings approx 5000 V each. 2½x2¾ x2½, 2 lb. #3862 NEW $35.

PRI: 115/230 VOLT SEC: 54.4VCT 2.5A 37.5VCT 7.8A

6½x5½x4½; 20 LBS. SCHOTT TY4RX020A $12.95

PRI: 117v 50/60 SEC: 6500VCT 65MADC, 4350WV 5½x6¾x7½; 35LBS 539-6504 $25.00

HIGH CURRENT CHOKES

#6220526, 85 mHY 10 amps; 0.49 ohms DC resistance. 4½x3½x4½, 15 lbs. $9.95

#6221188, 4 mHY 8.7 amps; 0.083 ohms DC resistance. 4x2½x2½, 4 lbs. $4.95

#WE330A, 60 mHY 7.5 amps; 0.74 ohms DC resistance. 4½x4½x4, 12 lbs. $7.95

#WE1059A, 6 mHY 15 A; 0.11 ohms DC res. Sealed-type. 5x4½x4½, 15 lbs. $8.95

#WE1060A, 2 mHY 15 A; 0.14 ohms DC res. Sealed-type. 3½x4½x3½, 8 lbs. $5.95

#WE241C, 2.5 mHY 25 A; .25 ohms DC res. Sealed-type. 3½x4½x3, 7 lbs. $7.95

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11 HY 500 MA 55 ohms, 10 KV test. 9x7x6; 42 lbs sh wt. #3C557N/610, used $12.00

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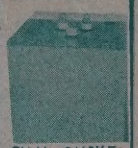
10 HY 225MA 85 OHM 3¾x5½x5 WT. 11 LBS. #TF1RX04YY $3.95

4.5 HY 150 ma 65 ohms 2500 V test; 2½x3½x2½ 5 lbs. #221-6642 NEW $2.95

3.5 HY 500 MA 100 V. 60 CYC 30 OHMS 715WV 4x5¼x3½;10 LBS TF1A04KA/A8649 $2.95

8 HY 116 ma 250 ohm 1500 Vrms; 3½x3¼x2 TF1A04YY $3.

10 HY 75 ma 268 ohms; 4x2½ x2¼; 3 lbs. #CS13886, $3.



DUAL CHOKE 11 HY 100 MA 200 OHMS 4x4x5½ WT 8 #3C557F-1 $1.75

3 PHASE DELTA 60 hz 400 wv nominal 208 v 3phase 1940 wv 1370 v rms 52 ma rms per leg 5x5½x4½;18 lb 686-6836 $25

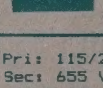
10 HYS 500 MA 45 OHM DC RES 500 WORK VOLTS #5950-646-1383 $5.95

1.5 HY 1.5 AMP 5000 v. TEST 8½x8½x6½; SHPG. WT: 60 L 5950-159-6041. $14.95

Pri: 115 VAC 50-60 Hz Sec: 584 VCT 170 MA, 6.3 V 5 A, 6.3 V 2 A, 5 VCT 3 A; 4.4x4.4x4, 12 lbs sh. #3340-063902, unused, $7.95

Pri: 115 VAC 50-60 Hz; Sec 850 VCT 340 ma 700 WV. 4½x 5¾x4½, 17 lbs. #FT2546 $10.

Pri: 115 VAC 60 Hz; Sec: 870 VCT 250 ma 2 KV insula. 5x4½x4, 12 lbs. #T5/610 $8.



Pri: 115/230 VAC Sec: 650 VCT 70 ma, 6.3 V 3.8 A. 3½x4½x3, 7 lbs sh #M4626/TS1060 $6.

Pri: 115/230 VAC 50-1000 Hz Sec: 655 VCT 100 ma, 6.5 V CT 9 amp, 6.4 VCT 3 amp; 4.3x3.6x4.2, 10 lbs sh. #T101/FR-5, used. $6.96

SPEED CONTROL CONSISTS OF A TRANSFORMER IN BOX 115 V. 60 HZ. WITH OUTPUT SELECT OR SWITCH MARKED OFF-HI-MED-LOW. PLACED IN SERIES WITH A.C. LINE & LOAD SELECTOR ALLOWS 100%,40% OR 20% OF INPUT TO LOAD,100 WATTS. SIZE 4 1/2 X 4 1/2 X 3; 61 LBS. #230428 NEW $2.95

Pri: 115/230 VAC 50-60 Hz Sec: 320 VCT 830 ma, 2.5 V CT 6 amps. 5x6¾x4½, 18 lbs sh. #TF1RX03NA, $12.95

Pri: 115/230 VAC 50-1000 Hz Sec: 380 V 600 ma, 230 V 15 ma; 740 WV to grnd. 4x5½ x3½ 12 lbs. #C185028 $9.95

DAVIS DIMMER AUTO TRANSFORMER

Input 230 VAC 60 Hz 1 Ø; five slide adjust 0-48 V outputs, 20 amp max-total. Used as stagelight control. 10x10x7, 90 lbs sh. #GR-3-048 $39.95

MULTI-VOLTAGE ISOLATION TRANS. PRI:73/88/95/105/ 115/125/190/210/ 230/250. 50/60 CY SEC:17.6/35.2/189 193/196/200/203 @ 1.6 AMP. 9½x4½x7½; 40 LBS. 2Z9619-6 $14.95

SOLID-STATE POWER PACK, 250 VDC 200 ma +0.05% with +4% volt adjust; 115 VAC 400 Hz in. 4.9x6x4.2, 5 lbs. #894-6393 NEW $20.

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TELEPHONE REPEATING COILS,1:1 for 600 ohm circuit; 3x2.6x2.3, 2 lbs. #C-298 $4.00

#D1621946, 2-windings 400 & 9 ohms; 3.1x5x1.7 2# $4.50

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DUAL CHOKE, 0.05H 500 ma 1.36 ohm; 3½x4x2½, 4 lbs sh. #3C575Z7-5 $3.00

Pri: 115 V 60 Hz Sec: 500 VCT 100 ma, 600 VCT 150 ma, 6.3 VCT 3 A Size: 5x4½x3½, 10 lbs sh. #MB-1281, $5.95

PRI:120 V 60 CYCLE SEC: 5.4v/2.7v @15A 5VCT @15A WITH INSULATOR & TUBE SOCKET 5x5x7. 15 LBS 5950-553-5572 $14.95

SWINGING CHOKE, 10/25 HY 125/15 ma. 4½x3¼x4½, 6 lbs. #TF1RX04LB/FGC-29, $5.95

DUAL CHOKE, 30 Hy 25 ma 1350 & 5 Hy 135 ma 150 ; 2½x5x2½, 3 lb. #6663, $3.

VARIABLE TRANSFORMERS

PRIMARIES 0-120,130,140 60 CYCLES. VARIOUS MANUFACTURE USED, CHECKED, GUARANTEED.

1 AMP	$4.95	9 AMP	$32.
1.25	5.50		
1.75	6.50	45 AMP	$90.

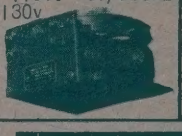
0-240 VAC VARIABLE TRANSFORMERS, 220/240 primaries 8 AMP $42. 12 AMP $55. 9 AMP $45. KNOBS & DIAL PLATES INCLD. Other values avail. Write.

12 VOLT 60 HZ input, 0-3.5 V 2 amps out. #5-1066, $3.

VARIAC M-5/RMS11-2, 0-135V @ 5 AMPS FROM 114 VAC 400 HZ INPUT, #7486, $12.95

VARIAC M20BB 120 VOLT 350 20 AMP. MOTORIZED 115V400 #5950-089-7734 NEW $65.00

115VAC 60HZ 9AMP GANGED FOR TWO PHASE MOTORIZED 115VAC 60HZ CN-54/FST-1 USED,$50. LESS MOTOR $45.



POWERSTAT, 115v. 400/800HZ OUTPUT: 0-130v 7.5 AMPS, 0.975 KVA. #5950-518-2508, NEW $13.95

KNOBS FOR VARIACS

2-3/8" dia. fits 3/8" shft. W/ptr. Luxitrol, $1.50

4" dia WHEEL with pointer for 11/16" dia shaft. #KNOB-35 used $3.00

DIAL PLATES, unused: 4" dia 0-100 scale; 7/8" dia ctr hole. Takes three screws; #BP8087, $1.00 ea

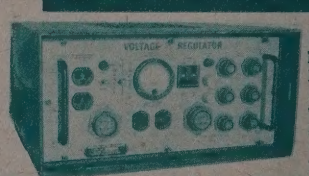
10" dia 0-100 scale; 1.5" dia ctr hole. Takes four screws; #BP653, $2.50 ea

POWERSTAT variable transformer, 120 VAC 380/1000 Hz input; output 0-120 VAC 13 amps. 7x6.2x3.3, 9 lbs sh. #GA-50650L, used, $18.95

SCREWS. #BP653, $2.50 EA

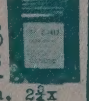
TF-238 400 Hz LINE REGULATOR, input 100-130 VAC 400 Hz; output 115 VAC -5 V 400 Hz 7.5 KV. Uses 13 amp variable transformer and buck-boost transformer; p/o TPS-1G system. 10½x14½ x9½; 55 lbs sh. Unused $75.

5000 WATT REGULATOR



CN-514/GRC AUTOMATIC VOLTAGE REGULATOR, regulates inputs of 95 to 135 VAC 47.5 to 63.5 Hz to output of 115 VAC -1% over a current range of 0 to 43 amps. Uses motor driven variable autotransformer with drive circuit and buck-boost transformer for regulation. Has standard duplex outlet unregulated output, duplex outlet regulated, and seven Amphenol-type connector outlets. Also 2½" rd 0-150 VAC meter and circuit breaker. Operates in manual or automatic modes. 8½x17 x15; sh wt two pkgs 70/20 lbs. Used, $125.00

STANCOR CHOKES #C-1412, 4 Hy 250 ma 60 ; 3 KV insulation. 2½x 3½x3½, 5 lbs. Used, $4.00



2 Hy 100 ma 1.9x1.5x1.6 1 lb. #SMD-422742 $2.25

J-95/CRD-2 POWER CONTROL BOX for controlling and monitoring 115 or 230 VAC power circuits upto 500 watts. Consists of autotransformer w/10 step voltage control from 96 to 137 VAC and 240 VAC. Also features 3½" round 11-reed 55-65 Hz line frequency meter, 3½" round 0 to 150 VAC meter, 5 and 10 amp circuit breakers, and overload relays. 14½x14x13, 72 lbs sh. Used $48.

& Hy 80 ma 2.6x2x2, 2# #5017 $2.50

1 hy 235 ma 80 ohm 2x2x1½;8 oz #0146 $2.00

6.3 hy 6.24a 61 ohm 3½x3x3½; 5lb 814-2421 $4

1.5 mH 30 ADC 0.035 ohm, 15 Vrms 2400 Hz. 3½x5x2½, 6 lb #924-0472 $9.

10 HY 45 ma 810 ohms 2½x1½x1½ 2# 3C325-12 $2.

15 HY 150 ma 4x3x4, 8 lbs #15H150 $6.

300 Hy 10 ma 3x2.3x2, 3# #A3501 $4.00

ANTENNAS

HY-GAIN ANTENNAS

HY-GAIN MOBILE-COM ANTENNAS, new: 760-SERIES antennas include 52" whip, 2.5"H spring base, 18' RG-58 coax cable, PL-259 connector, & UG-175 reducer; 5 lbs NEW, $9.95 ea: #761 (30-33 MHz) #762 (36-42 MHz) #767 (33-36 MHz) #764, 130 to 174 MHz, $15.95

280-SERIES mobile coil antenna w/ 52" lg whip & 2" dia loading coil: #280 10 meters, 2-3/4"H coil $9.95 #281 15 meters, 2-3/4"H coil $9.95 #284 75/80 meters 8.5"H coil $9.95

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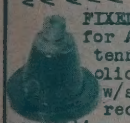
3 FOOT MAST SECTIONS (left), painted copper-coated steel; sequentially screw into each other with 3/16" dia MS-49 top section smallest thru 5/8" dia MS-54 largest. Sections self-supporting to 15'H; MS-53 can fit into another MS-53. 1 lb sh. May need paint. MS-49-50-51-52-53, used $1 ea. Unused $1.50 ea. MS-54 used $2.50; Un $4.

CW-206 ROLL BAG for MS-116-117-118 mast sections; 40"Lx3"Hx5"W, used, $6.00.



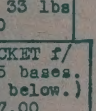
FIXED STATION BASE for AT-271/PRC antenna; black phenolic 3½" dia base w/silver-plated receptacle; BNC connection, and load coil 2 lbs. #CAN-100-7555 $4.

MP-47A MAST BASE, similar to MP-57 but 20" long and 8½" dia insulator. 33 lbs sh wt. Used, $25.00

B&W 1KW BALUNS, the missing link between balanced antenna loads and unbalanced feed lines. 4x4½x4½; unused.

#701 (15M) $5

AB-243 CORNER BRACKET f/ MP-48-57 and AB-15 bases. (Pictured w/AB-15 below.) 8 lbs sh. Used, $7.00

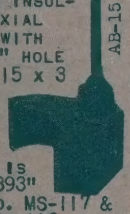


AB-450 MAST BASE BRACKET f/2" dia hole mt, 3#, $7. MP-63 BRACKET holds base tilted out, 4#, $5.

AT-339/PRC-6 HOMING ANTENNA for 38-55.4 Mhz range. Handheld unit has folding loop, 5-step output attenuator, 4' cable w/ BNC connector. Loop 24"H; 12½x5x2½ collapsed. Canvas bag included; 6 lbs. $10.00

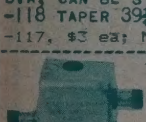
AT-803/VR CENTER-FED BROADBAND VERTICAL DIPOLE for 225-400 MHz; p/o VRC-24/TRC-68 equip N connection; 9.3"L x 2.3"D, 3 lbs. Used $15.

AB-15 BASE FOR WHIP ANTENNA SECTIONS MS-116-117 118 ALSO AB-21-22-23-24. SPRING ACTION WITH INSULATOR 3½x3" AND COAXIAL CONNECTOR FOR USE WITH PL-259, REQUIRES 2" HOLE FOR MOUNTING. SIZE 15 x 3 WT: 2 LBS. $4.95



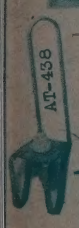
WHIP ANTENNA MAST SECTIONS FOR USE WITH AB-15. MS-116 IS LARGEST, 39½"L X .393" DIA; CAN BE STACKED. MS-117 & -118 TAPER 39½"L. MS-116 OR -117, $3 ea; MS-118 $3.50

CG-1013 TRANSMISSION LINE LAUNCHING UNIT w/ heating element inside p/o 1.7-2.4 GHz equip. Aluminum w/8" dia max conical fiberglass shield; 33"L. UG-100 conn; 10 lbs. Used $10. RG-14 COAX w/UG-100 and UG-707, 10' $7; 15' $10



CU-92/APN ANTENNA COUPLING UNIT is a impedance matching device enabling the operation of 2 receivers from one ant. has one SO-239 & 2-binding posts and tuning adjustment 500 Khz-4 Mhz, $3.95

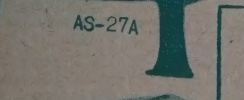
A-62 Dummy Load for SCR-508-528-BC-604 $5
A-83 " " " " 608-628-" 683 $4

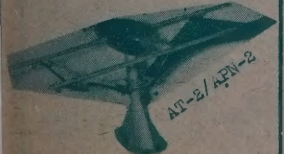


AS-27A/ARN-5 Horizontal folded dipole used on BC-733, ARN-5 Receivers 108-110 mhz etc. $10

AT-2/APN-2 DIPOLE ANTENNA, 150-180 MHZ $5.00
AT-438/GR DIPOLE ANTENNA 15" folded, takes PL-259 coax. conn on insulated bracket. $15

ANTENNA WIRE SOLID COPPER #10 VINYL COVERED, 250FT #4884C $25





MP-54 OFF-SET BASE FOR AB-15; OFFSET 7" FROM BASE CTR. 11½"H. $7.95

AS-2108 ADF LOOP, 100-3000 KHz; 28 VDC, 11.8x11.8x1.3 4 lbs Used $16.

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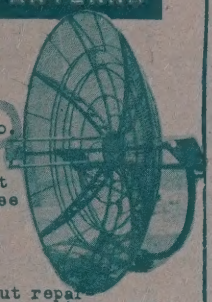
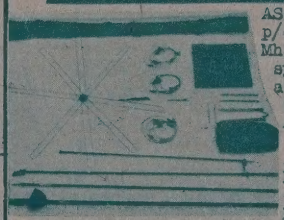
VIS-O-GLOW NEON LIGHTNING ARRESTORS, #4392, $1.00 EA.

8 FOOT DISH ANTENNA



AS-554/TRC 8' dia ANTENNA with aluminum mesh paraboloid surface. Designed for 1700-2400 Mhz with 30 db gain; 4.3 Mhz bandwidth. 20 db major to minor lobe ratio. Rugged military construction; looks like one can add onto and extend the cast aluminum supports to increase dish diameter. 36" feedhorn focal length; 16" fall from edge to center. Shipped in sections with feedhorn and yoke. Mesh may have minor but repairable breaks. 425 lbs sh wt. Used ~~$500~~ $350.

PORTABLE 28' ANTENNA



AS-1882/GR ANTENNA SET p/o AN/TRD-4 0.5 to 30 Mhz direction finding system; stands 28' H assembled. Consists of 96"L mast section AT-442 (2" dia),-443 -444, and 70" mast AT-445 (1" dia); MX-1168 66" loading disc array; and MT-865 wood and metal gimble base. Also four GP-2 15" stakes, three 16" guy stakes, three 32' 1/8" th steel guy wires with insulators and clamp, loading resistor, canvas bag, and canvas case. 100 lbs sh wt: motor freight only. Used, $79.50

AB-24 MAST SECTION, terminates MS-116-117, 27" long, used, $2.50 ea.

AN-45 Antenna f/BC-620 (SCR509-510) transceiver; telescopes 17½"-98½", unused $7.50

AT-PRC6 FLAT RIBBON ANTENNA for RT-196/PRC-6 transceiver, 30"L, used $4.00

AT-272 Goose neck flexible base 8" used with flat antenna on PRC sets. $2.

MT-652/GR ANTENNA BASE f/MS-116-117-118; fits RT-66-67-68-70, R-108-109-110. Used $5.

CCI-51048 WHIP ANTENNA Telescoping, 7 ft. extended, 15" collasped. $2.50

AT-272 FLAT RIBBON ANTENNA, 30" long as used with PRC-8-9-10 radios; WRITE

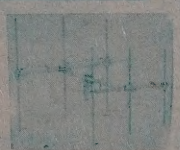
MP-74 GOOSENECK BASE for MS-118/AB-23 Mast Sections, 14" lg. w/spade type bracket for side mounting. $2.00

M-422 ADAPTER for using MS-116/AB-23 sections with PRC & BC-1000 as long ant. $2.00

AB-129 Rubber Base f/AT-271 on PRC-8-9-10 $2.
AB-591 Rubber Base f/AT-271 on PRC-25-77, $4.

AB-1093/USQ-42 WHIP ANTENNA w/spring base and PL-259 connector on base bottom. Lower two sections telescope 21"-35¼"; screw-on 18¼"L wire-like top section. NEW $15

40-100 MHZ YAGI ARRAY



AS-756/TRC TWO 3-ELEMENT YAGI ARRAY for 40-100 MHz range, 5 db gain; vertical or horizontal polarization. Consists of array spacer bar, two antenna booms, and 12 each long, short, and subassembly antenna elements. Component lengths adjust according to frequency: spacer 58"-112", booms 72", elements 40"-58". Matching transformer built-into each boom. 95 lbs sh (UPS in 4 pkgs); AS-756, $79.50 #YA-756, single 3-element array f/AS-756 $36.

AB-101 MAST SECTIONS for ANTENNA SUPPORT, steel mast 2" dia X 68" long with swaged end and locking device; sold in sets of 7 only. 100 lbs sh - no UPS. Used, ~~$50.00~~ $38.00

AB-318 GINPOLE swivel base a/stake; 1-3/8" dia. Slips into mast section. Used $5.

MX-378 GUY RING for 1-3/8" masts; attach guy rope or wire at corners, $.75 ea

GR-325 GUY RING for 3½" dia masts, $1.25 ea

MX- Guy Ropes are 3/16" dia nylon, 800 lb test; w/adjust hardware, hook & insulator

MX-382 31 ft used $2.

GP-2 GUY STAKE, steel 16½"x½" dia; 1-1/8" head, 1-3/8" point. 2 lbs, 85¢ ea 4/$3.

ARA-31 HOMING SYSTEM

AN/ARA-31 ANTENNA SYSTEM FOR HOMING RECEIVER

For use in the 24 to 49 Mhz FM range. Complete system consists of four AT-624 24" antenna elements, two CU-459 ant. element connectors, a KY-149 keying unit w/mtg. and one SA-474 switch box. BNC connections except for one reverse pole BNC. An/ARA-31 w/manual, new, $50.
AT-624 antenna element, $8.00 each.
CU-459 antenna connector, $5.00 each.
SA-474 switching box, $6.00 each.
KY-149 keying unit, ~~$25.00~~ each $18.95

LP-21 LOOP ANTENNA, used with 200-1500 Khz radio compass receiver; has 24 V 400 Hz motor for rotating loop and autosyn to transmit to I-82 or similar indicator Teardrop shape for aircraft; 30 lbs. $25

AS-578/ARA ANTENNA for ARC-27-34-55 direction finding sets; 15 lbs. Used, $25.

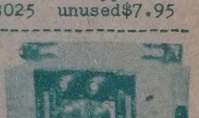
AS-313/ARN-6 ANTENNA LOOP for AN/ARN-6 radio compass system; 18 lbs. Used, $15.

MAGNACRAFT #122RX-16 COAXIAL RELAY, 12-24 VDC SPDT w/aux SPST n.o. 10 amp contact; 100 W 50 ohm. 2-RCA plugs & SO-239 connector; w/cover. 2¼x2¼x1½, 2 lbs. Unused $6.

SPDT COAXIAL SWITCH rated DC to 5 Ghz, approx 1 KW. 28 VDV motor drives contact bar. Requires 3-"LT" connectors (as used on RG-17 coax). and one 7-pin control connector. 6x6x9, 8 lbs; Thompson-Ramo #C14K2CA, unused, $27.95

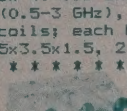
SPDT ANTENNA RELAY

SPDT ANTENNA CHANGEOVER RELAY, 6 vdc 20 ohm. Contacts appear to be good to 100 watts. BNC type conn 3x1½x2. #5945-539-3025 unused $7.95



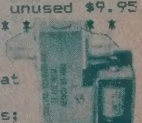
DOUBLE POLE ANTENNA TRANSFER RELAY ASSEMBLY, two-ganged Amphenol 360-11896-1003 SPDT antenna relays which are separable; each rated 500 watts CW (0-0.5 GHz), 100 W (0.5-3 GHz), or 50 W (3-6 GHz). 115 VAC coils; each has N and 2-BNC connections. 5x3.5x1.5, 2 lbs. #GR-0017094, $24.95

* *



SPDT ANTENNA RELAY, with unused contact grounded; part of 30 W 225-400 MHz transmitter. Coil 60 VDC 15 ma 4000 ohm; 3-BNC connections 2x1x2. #D-0089, unused $9.95

* *



COLLINS SPDT 48 VDC ANTENNA CHANGEOVER RELAY, Dow Key-style relay has contacts that should be good for upto 500 watts; three "N" connections; 3.5x3x1.6, 1 lb. #123-0100-440, removed from equipment, $12.95

DF LOOP ANTENNA

AT-249/GRD DIRECTION FINDER LOOP ANTENNA used with RT-196/PRC-6 transceiver; operates over 47-56 MHz FM continuously tunable. Collapsible loop measures 14.7x14.7 extended; 20"H including handle. Controls Tune, Normal-Sense, Atten 1-2-3-4; 54" BNC cable, CW-204 canvas carrying bag. 7 lbs sh; Unused $12.00

CABLES

NEW COAXIAL CABLE

NEW MANUFACTURE AND BRANDED WITH STANDARD TYPE NUMBERS TO MIL-R-17A SPECIFICATIONS.

PRICES LISTED FOR LENGTHS INDICATED, IN-BETWEEN LENGTHS USE THE HIGHER PRICE. LESS THAN 100 FEET ADD 10% TO HIGHEST PRICE

COAX RG- #	Ohms	100 feet	500 feet	1000 feet	5000 feet
RG-8/U	52	.22	.21	.20	.20
RG-11/U	75	.20	.19	.18	.18
RG-58/U	53.5	.11	.10	.09	.09
RG-59/U	73	.12	.11	.10	.10

Prices subject to change without notice.

NEW COAXIAL CONNECTORS

SO-239 59¢ ea. 10 or more 55¢ ea.

PL-259 69¢ ea. 10 or more 65¢ ea.

CH-259 75¢ ea. 10 or more 70¢ ea.

PL-258 JUNCTION $1.25 ea. 10 or more $1.10 ea.

#SH-SO-239, one hole mt SO-239 60¢

#83-58FCP, short barrel PL-259 for RG-58, 50¢

UG-536 "N" conn. for RG-58, $1.

COAX CONNECTORS

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptacle, (r/a) right angle; (U) used, (Un) unused.

TYPE BNC: UG-88 m (RG-58) U- 45¢ ea, 10/$4.

UG-
-306 90 m-f Un $2.
-260 m (RG-59)U-65¢
-273 to UHF Un-$2.
-282 to post $1.50
-290 f rec U-65¢
-291 f panel U-$1.
UG-909 bulk U-$1
-911 bulk Un-$2
-913 m r/a Un-$2
-1090 to post U-$2
-912 bulk Un-$2
-1441 to two banana jacks U- $3.

TYPE C: UG-573 m (RG-8) U- $1.50 each.
UG-626 m (RG-21) U-$2
UG-710 m r/a Un-$3
-943 (RG-12) U-$3

TYPE N:
UG-18 (RG-21) Un-$2.
-27 m-f r/a Un-$2.
UG-
-536 (RG-58) Un-$1
-30 f-f bulk Un-$2.
-593 f chassis bulk, U $2.

OTHERS:
UG-100 m U-$1.50
-100 panel U-$1.50
-109 f/UG-100 $1.50
DA-113 dummy U-$5
-212 HN r/a Un-$3
M-359 elbow: PL-259 to SO-239; U-40¢ Un-75¢
UG-175: reduces PL-259 for RG-58, NEW 35¢
-176: " " " RG-59, NEW 35¢

COAX CABLES from mil-equipment; used-usable:
RG-9 w/two UG-573 "C" connectors, 13" $2.50
RG-58 w/two UG-88 BNC conn., 4' min., $3.00
RG-59 w/male & female "N", 50', #CG-357, $3.
RG-213 w/two right angle male "N", 3', $6.
BATTERY CABLE, 2-cond #8, 8 ft, $3.00

WIRE SALE

VINYL-COVERED HOOK-UP WIRE, limited colors; all stranded copper. May not have continuous lengths over 2000'; no color choice.

#12 wire	$7.50/100 ft		$50/1000'
#14	$6.50/100'	$42/1000'	$185/5000'
#16	$4/100'	$20/1000'	$65/5000'
#18	$3/100'	$14/1000'	$50/5000'
#20	$3/100'	$12/1000'	$45/5000'
#22 shielded	$3.50/100'	$22/1K'	$75/5K'
#26 solid	$6/500'	$9/1000'	$30/5000'

AIRCRAFT-TYPE WIRE, nylon insulation w/braid covering; silver-coated wire and shield:
#22 stranded, $4.50/100' $32/1000'

COMPUTER CONTROL CABLE in black PVC jacket, #24 wire in color-coded vinyl; LV-low voltage

	Cond		10'	100'	500'	1000'
#CC24-28LV	28	$/ft	.45	.32	.28	.22
CC24-14	14		.32	.28	.24	.18

U-226 HEAVY DUTY CONNECTOR, 10 contacts (5-male/5-female) each gold-plated 0.1" dia and arranged so that U-226 mates with other U-226. Has locking cap; 2.8" dia X 5.5"L plus 4" sleeve, 2#. Unused-cutoff $5. 2/$8

BUNKER RAMO AMPHENOL

Sale!

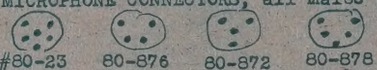
RF and AUDIO CONNECTORS, all new package; Male (M), Female (F)

BNC quick assembly:
#31-4701 50 (F) $1.
#31-4702 70 (M) $1.25; -4703 70 (F) $1.25

UHF-types: #82-23 (M) to (F) w/ground, $1.50
#83-5SPA, press male to (F) adapter, $1.25
83-58FCP, short barrel PL-259 f/RG-58, $.50

83-877, adapter with PL-259 each end, $1.25
83-878, single hole mount SO-239, $.60
M-358, adapter "T" 2-(F) to (M), $1.75
#81-103 mini plug or #81-104 mini jack, $.50

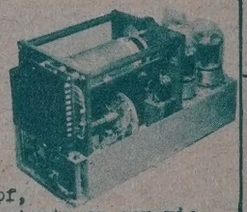
MICROPHONE CONNECTORS, all males ⅜" diameter



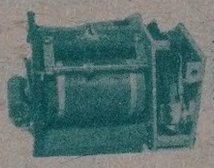
#80-23 press fit 60¢
80-876 lock ring $1
80-872 extended pins 60¢
80-878 lock ring $1
80-886 threaded barrel $1

RIBBON INDUCTOR

VARIABLE RIBBON INDUCTOR with motor drive; p/o Collins 180L antenna tuner. Consists of two 5.4"L x 3.375" dia coils with 288" of drawn silver ribbon (o.125"w x 0.01"th) wound between; approx 28 uH. Ribbon is transferred from one coil to the other as a 28 VDC motor turns both. O/a 9¼x5⅝x5¾, 10 lbs sh wt. #I401/CU-991, removed from equipment, $29.95



618S-1 POWER AMPLIFIER, p/o Collins 2-25 Mhz 100 watt transceiver. Has 12.3 uH roller inductor; coil 3¾x1¾" dia with 27 turns #14 silver-tinned wire rotated by 115 VAC 400 Hz selsyn. Also ten Centralab 850 HV capacitors 10 pf, 50 pf, 7/100 pf, and 1000 pf. Big silver contacts on ceramic switch; uses three 6159 tubes. 11x5x6, 10 lbs #3496/618S-1, less tubes, $22. With tubes $30 MATING CONNECTORS, 2 required, $2.50 each. SCHEMATIC for 618S-1 power amp, $1.50



ROLLER INDUCTOR ASSEMBLY with motor drive. 3.4" long x 1.75" dia. coil; 28 turns #18 wire. Approx. 14 uHy with center tap. 115 VAC 400 Hz 20 watt motor turns the coil. Originally used to automatically resonate an antenna to a transceiver's frequency. O/A 4½x2¾x3¾; 5 lbs. sh. #T301/CU-991, $14.95

COLLINS 250 KHZ I.F.

250 Khz IF ASSEMBLY from Collins 618S-1 transceiver. Has 250 Khz mechanical filter with 6.7 Khz width and tubes 3/5749 and 2/5726. 4¾x6x3¾, 3 lbs sh wt. #IF250-67/618S1, used, $12.95

250 Khz IF ASSEMBLY from RT-311/ARC-38 transceiver. Similar to above but with two mechanical filters--one 2 Khz width, the other 8.5 Khz. #IF250/ARC38 $24.95

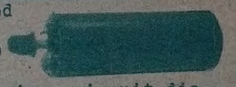
250 KHZ CRYSTAL OSCILLATOR from Collins 618S1. Has 250 Khz BFO oscillator coil, crystal oven with CR-46 250 Khz crystal, and 2/5749 tubes. 4⅝x6x1⅜, 2 lbs sh. #OSC-250/618S1, $6.95

XMITTING CAPACITORS

MICA TRANSMITTING CAPACITORS, G-SERIES TYPE IN USED OR UNUSED CONDITION DEPENDING UPON A VALUE'S AVAILABILITY. VARIOUS MANUFACTURERS. SATISFACTION GUARANTEED OR PURCHASE PRICE WILL BE REFUNDED. OTHER VALUES IN STOCK. WRITE.

TYPE	KV	MFD	KV	MFD
G1, 2¼"h x 2⅝" dia, wt: 3 lbs. $12.50 eac				
	1.0	0.04	6.0	0.0001
	1.5	0.08	6.0	0.0002
	3.0	0.02	6.0	0.00024
	4.0	0.0062	10.0	0.00015
G2, 3½"h x 3" dia., wt: 5 lbs. $18.50 eac				
	2.0	0.03	10.0	0.00015
	2.0	0.045		
G3, 5"h x 4" dia., wt: 8 lbs., $27.50 eac				
	2.5	0.15	6.0	0.006
	5.0	0.02	20.0	0.00015
G4, 5"h x 5⅛" dia., wt: 12 lbs, $39.50 ea				
	4.0	0.084	6.0	0.0373
G5, 10"h x 6⅝" dia. wt: 22 lbs, $59.50 ea				
	10.0	0.02	15.0	0.0082
	15.0	0.0068		

ROBOTICS MOTORS



15° STEPPER MOTOR, removed from computer printer; originally used +9 to +40 VDC pulse. Hi-speed, hi-performance; w/original driver circuit diagram. 1x¼" dia shaft; o/a 5⅛x1-5/8 dia, 2 lbs BINDER #4-62 4Ω field $17.50; #6-62, 6Ω, $20.

15°4-PHASE VR STEP SERVO, 5 ohms 1.5 A/Ø; 28 VDC input pulse. ⅜x¼" dia shaft; o/a 3x3½x3, 2 lbs sh. Made in Canada; removed from equipment. #20M34C1, $9.95

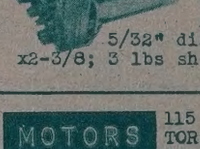
26 VDC REVERSIBLE MOTOR with clutch for fast stops; 12K RPM @ 26 VDC 1.2 amps. Clutch engages at 10 VDC which allows variable speed over 10-26 VDC. Rated for intermittent duty. Spline 3/16" dia shaft; o/a 4x1½" dia, 1 lb. #SR-215 NEW $6.95

GE DC COMPOUND MOTOR 1/8 HP 115 VDC 1.5 A 1725 RPM; has air pressure brake. P/o tape drive; 5x12x5, 18 lbs sh. #5BC-12RA49, used, $14.95

30 RPM MOTOR GEARBOX, 115 V 60 Hz with fast stop solenoid clutch; 3x3/8" dia shaft. 3½x10⅝x3½, 10 lbs. #3732U-600. $9.95

GE #5BC48AB550A ¼ HP DC SHUNT COMPOUND MOTOR, armature 115 VDC 2.1 A; field 40 VDC 1.2 amp. 1140 RPM. Double end shaft 2x5/8 and 4x5/8" dia. Casing 11¼x6¾" dia. 60 lbs sh. Used $22

160 RPM DRIVE UNIT w/clutch has Globe C-25A512 27 VDC 15000 RPM motor and 27 VDC clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RPM output on 3/16" dia X ⅜" lg shaft. O/A 3¼x4¼x3½, 3 lbs. #160DRV/618 used $8.95



100 RPM 12 VDC GEAR MOTOR, output at 3/8" x 1/8" bar which would mate with slotted shaft (not included). Also 3400 RPM available on 5/32" dia x ⅜" lg shaft. O/A 5⅝x2¼x2-3/8; 3 lbs sh. #LEE-11152S unused, $8.95

MOTORS

115 VOLT AC-DC MOTOR, starts at 15 VDC; runs counter-clockwise. 3" dia X 5¼" lg plus 5/16" dia X 1-1/8" lg threaded shaft. 5 lbs sh. #AC-DC-R102, unused, $4.95

115 V AC-DC MOTOR, starts at 25 VDC, runs clockwise. 2¼x3x4⅛ plus 5/16" dia X 1⅛" long machined spiral shft. 3 lbs. #AC-DC-H102, $3.

27 VDC 10 AMP 250 RPM MOTOR with brake which actuates when DC input is approx. 5 volts. Duty cycle 30 sec on, 300 sec off. O/A 2⅝x2⅝x6½ plus 7/8" long X 3/8" dia. shaft. 5 lbs sh. #2312-6, $7.95

HAND-CRANK MAGNETO GENERATORS OUTPUT APPROX. 100 VOLTS DEPENDING ON SPEED OF ROTATION. USED TO RING BELLS IN TELEPHONE LINES. CAN BE USED FOR worm shocker and other experiments; 4x2.5, 2 lbs sh. GN-41 w/crank, unused, $15.00
GN-38 open gear crank, used $12. GN-38B $16.

DC AIRCRAFT MOTOR; GE#5BA-50LJ29, 0.4 HP, 3000 RPM. ARMATURE: 60v. @ 2.3 AMPS FIELD: 27 VOLTS @ 6.5 AMPS DUTY: 10 MIN. @ FULL RATING. SHAFT IS CORKSCREW-TYPE 5/8 INCH DIA. FLANGE MTG. 3⅛ CNTS. BODY SIZE: 6½x4½x4½ WT: 11 LBS. $4.95

VARIABLE SPEED DRIVE CONTROL USED WITH MOTOR AM No. E-85-132. GE#3S750RJ750A1, FIELD 100 VDC ARM., 140 VDC., 2.6 A INPUT 230 V. 50/60 HZ. 5 LBS
Unused w/schematic $15.00

JOHN OSTER TYPE C-24A-1B KS-5829 SERIES MOTOR; 27 VDC, 0.01 HP, 7000 RPM. SIZE: 3x2 DIA.; SHAFT: 1x⅛ DIA. WT: 1 LB. Unused, $2.95

LOW SPEED DC GEAR MOTORS, various styles similar to picture; approx speeds given @ 24 VDC. Slower speeds at reduced voltages to 7 VDC minimum. 3⅛"L x 1⅛" dia. Used-some corrosion-tested OK
#30 RPM-DC-GM $8.50
#250 RPM-PD-5, $9.95

GE MINIATURE GEAR MOTOR, 328 RPM 3/8" dia right angle output shaft; other 3500 RPM 5/16" dia shaft, 5 in-lb torque. Requires 115 VAC 60 Hz and 7 mf 220 VAC capacitor; o/a 4x10x3, 8 lbs sh. GE #5KCM49NG, used, $8.95
CAPACITOR for above, 7 mf 330 VAC, $1.35

MD-34/ARA-8 MODULATOR-KEYER, p/o automatic homing keying assembly; contains Oster BT-2-13 28 VDC shunt motor, 12000 RPM 1.1 amps connected to double worm reduction with output of 32 to 50 RPM over 10-26 VDC. Also has phase shift capacitor and RF UHF connectors. 3⅛x10x4⅛, 5 lbs. Used, $3.95

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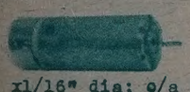
28 VDC 12000 RPM MOTOR f/ARC-3 set. Removable worm gear; shaft 1"x3/16" dia. O/A 3" x 1⅛" dia. #697-2644, $5.95

HAND CRANK GENERATOR AS USED IN GIESON GIRL RESCUE TRANSMITTERS Output 28 VDC @ 175 MA & 300 VDC @ 30 MA. WHEN CRANKED AT 60 RPM GEAR RATIO APPRX. 72 TO 1.
NO LEGS SEAT OR MOUNTING.
#GEN/CRT-3 RE-MOVED $12.00

HYSTERESIS SYNCHRONOUS MOTOR 115v 60HZ, 1800RPM, CONT. 1/8HP FL. MTG. 7", SHAFT 2"/1"x⅜ DIA. SIZE 6x5, CAP. ST. USED 25LB. BODINE#NCH-54 OR EQUAL ~~$36~~ $16



DC MOTOR, operates over 10-15 VDC 100 ma 2375-2425 RPM with governor. Shaft 5/16"L x1/16" dia; o/a 2-7/8x1-1/8. #AST-GK26 $7.95

MOTOR DRIVE ASSEMBLY f/vacuum variable capacitor. Uses 1/100 HP 15000 RPM 28 VDC motor (2"Lx1⅛" dia.) Has worm drive from motor to a series of gears geared to a 2" lever arm with ⅝" vertical motion. Also has limit switches and Cinch DA-15 15-pin connector. O/A size: 8x 3½x2⅝, 3 lbs sh. #DRV501/CU991, used, $9.95

WE KS-5871-L01 MOTOR, 28.8 VDC @ 3.3 A. 5600 RPM, 0.04 HP SERIES WOUND. CONTINUOUS DUTY; REVERSIBLE WITH SPEED GOVERNOR. (MAY ALSO OPERATE AT 12 VDC AT REDUCED SPEED. SHAFT ⅝x⅛, OVERALL SIZE: 6½x3½ DIA. SHPG. WT: 7 LBS. USED $7.95

GLOBE DC MOTOR, 27.5 VDC 2.4 A 0.035 HP 7400 RPM; 2⅛"L x 1-5/8" dia plus ¼"Lx3/16" dia shaft. #621-6822 unused $7.95

#A7155 DELCO DC MOTOR, 28 VDC 2.4 A 1/30 HP 3600 RPM. Size: 5½x2⅜" dia; shaft 1" x¼" dia, 2 lbs. Unused $4.

INDUCTION MOTOR, Eastern Air Devices J71-B, 115 VAC 60 Hz 0.25 amp input for 1/40 HP 3100 RPM output. Quiet running; good replacement motor for blowers. 3.1"x3.5" dia, shaft 0.9"x0.3" dia; 3 lbs sh. External capacitor required. #548-2239, unused $4.95; 4 mf CAPACITOR, $1.

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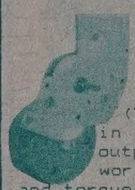
28 VOLT MOTOR, 135 RPM; HP: 1 oz/IN. WITH 5/16x⅝" DIA. GEARED SHAFT; HAS 4 SOLDER TERMINALS ON 1x1⅝x⅝ BLOCK. MOTOR SIZE: 5x1-7/8 DIA. WT: 1 LB. GE#5BA10FJ444 USED, $7.95

DC STEPPER MOTOR



PM DC STEPPER MOTOR, dual coil--CW and CCW rotation; each coil 5-pole (72°). Motor has gear box resulting in 180 2° steps for each rotation of output shaft. Coil 17 VDC 29 ohms but works well on 5 VDC at reduced speed and torque. Motor 1.4x.6", shaft .4"x.1" dia O/a 3.3"x1.5"; Airpax #A82302, $4 ea 3/$10.

HOLTZER-CABOT #1981-HC 120 VAC 400 Hz GEAR MOTOR, 6 RPM with 40 oz.-in. torque. Shaft ⅛" long x 0.2" dia. Overall size: 2⅛x2⅛x3, 3 lbs sh. #1981-HC, unused $14.95

BARBER COLEMAN AC GEAR MOTOR, 230 VAC 60 Hz; approx 3⅜ RPM. 5/16" dia shaft X 7/8" long; Size: 2⅛x3⅛x3, 2 lbs sh. B-C #108134483 NEW, $3.95

MOTOR W/RIGHT ANGLE SHAFT & MOUNT, 1/8 HP 230 RPM. SHAFT SIZE: 5/16" LONG X 3/8" DIA. CLEARANCE BETWEEN SHAFT AND MOUNTING ABOUT 1" REQUIRES 115 VAC 60 Hz @ 1.9 AMPS. SIZE: 7x3⅜ DIA. WT: 15 LBS. ROBBINS & MEYERS #KL-H330, $12.95

SA-28 AIRCRAFT INSTRUMENT ASSEMBLY with 27 VDC PM motor, 10000 RPM with worm gear assembly and other parts. Motor size 1¼x1x1, 3/16" dia shaft; o/a 6"Lx3¼" dia, 2 lbs. Unused $6.95

MULTI-SPEED PM MOTOR

MULTI-SPEED 24 VDC PM MOTOR can be wired for 11500 RPM 0.012 HP 0.7 amp or 3000 RPM 0.035 HP 2.3 amp operation; motor starts to turn at 9 VDC and is reversible. 6"x2.3" dia with 3.5" dia collar; geared shaft 0.6x0.4" dia. 3 lbs sh. Sperry #2960031, used, $12.95

RECORDER MOTOR, 1500 RPM; 2" SHAFT IS 3/16" DIA. FOR 1¼"; 3/64" DIA. LAST ¼". 3/8x3/16" DIA. SHAFT ON OTHER SIDE. MOTOR SIZE: 2⅝x2⅝x2 WT: 2 LBS. #602-1 UNUSED, $3.50

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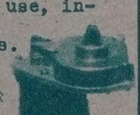
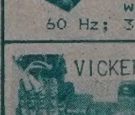
200 RPM 32 V 60 Hz GEAR MOTOR, has shaft 1"x½" dia and 3/16" dia shaft for fan. For intermittent use, increased voltage increases torque. O/a 5½x5x2¼, 3 lbs. #M01-2460, unused, $3.25



26 V 400 Hz 2750 RPM MOTOR will operate from 12 VAC 60 Hz; 3x2.8x3, 2#. #B701/R107 $2.



VICKERS AR-10007G 115 VOLT 50/60 CYCLE SELENOID OPERATED AIR VALVE ONE INLET ACTUATES TUBE PLUNGER 1" STROKE. USED SIZE: 6x4⅛x2⅝; 5 LBS. $12.95

CONTROL TRANSMITTER SELSYNS, similar to AY201 rotor 26 V 1 Ø, stator 11.8 V 3 Ø 400 Hz; usable in wind direction and antenna position projects. Various mfg; 1 lb. #WD-CX-SEL $6.

AY-165 AUTOSYN DIFFERENTIAL, 400 CYCLE, 11.8 V. 3 PHASE ONE TO ONE RATIO. BENDIX & OTHERS. SIZE: 1⅛x1⅛. PRICE: REMOVED FROM EQUIP. $2.95
AY-231 AND AY-232 SAME SPECS. AS ABOVE.
15CX4 TRANSMIT 115 VAC 400 Hz, used, $4.95
15RS4L RESOLVER 26/11.8 V 400 Hz, used $4.95
23CX4 TRANSMIT 115 VAC 40 Hz, used, $8.95
23TR4 RECEIVER, 115 VAC 400 Hz, used, $10.00
23TR6 RECEIVER, 115 VAC 60 Hz, used, $20.00
23CT6 TRANSFORMER 90/1 V per degree 60 Hz $10

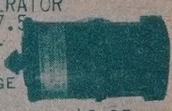
SELSYNS

2J1G1 SELSYN CONTROL TRANSFORMER, 57.5 VAC 400 Hz; usable in pairs for remote position indication and light duty turning applications. Operable from 24 V 60 Hz with good resolution and torque. ⅛" long shaft tappered ⅛", then threaded ¼". O/a 4⅛x2⅛ dia; 2 lbs. #2J1G1, less connector cap $7.50; w/cap $9.50

MK II SIZE 6 SELSYNS, 115 VAC 60 Hz; sold in mated pairs for rotational and position-indication uses. 7⅛x4¼ dia, 12 lbs/pair. Used-checked, various manufacturers, $45/pair

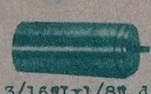
SIZE 5 SYNCHRO DIFFERENTIAL RECEIVER, 115 VAC 60 Hz; used to show the sum or difference of two angular motions. 5⅛x3⅛ dia, 5 lbs. $10.

OTHER SELSYNS AVAILABLE. WRITE YOUR NEEDS.



2J1H1 SELSYN DIFFERENTIAL GENERATOR NORMALLY OPERATES FROM 57.5/57.5 VOLTS 400 CYCLE BUT WILL OPERATE FROM 26 VOLT 60 CYCLE AS SHOWN IN WIRING DIAGRAM ON PAGE 31. SIZE: 2¼x4¼; WT: 8oz.
PRICE WITH CONNECTOR CAPS.....$3.95

DAYSTROM TRANSCOIL CONTROL MOTOR 115 VOLT 60 CYCLE, 1 PHASE, 2 PHASE 200 VOLT CT., 3200 RPM. SIZE: 2¼x2, SHAFT SIZE: 1/16x⅛ WITH GEAR. REMOVED FROM NEW EQUIPMENT. PRICE: $5.00



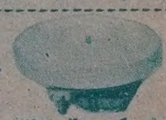
TACHOMETER GENERATOR, motor 26 V 400 Hz 2 Ø; generator 18V 400 Hz 0.3 V/1000 RPM. No load speed 10000 RPM. 2-1/8"Lx1" dia 3/16"Lx1/8" dia shaft. #TACH-SEL-MOD, $7.95

ROBOT GEAR BOX

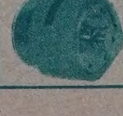
ROBOT GEAR BOX with two electrically independent 3 VDC motors which are loosely magnetic coupled. One gear has holes with 2 diodes used as optocouplers to sense rotational speed. Has two 3/8" dia splined shafts (48 RPM @ 3 VDC). This plastic gear box could be used for light-duty robot, cart, or animation projects O/a 7½x4⅝x2⅜, 2 lbs. #WD-4955-18, $3.50 4/$11

LINEAR ACTUATOR, STAT. 200, TENS. 40, COMP. 40. ARM TRAVEL 5/16". MOTOR 115v. 400 HZ, 1600 RPM. DUTY 1/10, 0.04 HP. TORQUE: 6.7 IN-OZ. SIZE: 5x5x3½ WT: 5 LB. AIRSEARCH#34930 USED $3.95

LINEAR ACTUATOR, STAT. 200, TENS 75-100, COMP. 75-100. ARM TRAVEL ⅝". MOTOR 115v. 400 HZ., 0.025 HP 6500 RPM. DUTY 1/10, TORQUE: 3.9 IN-OZ. SIZE: 5x8½x4¼ WT: 5LB AIRSEARCH#3D146-120 USED $3.95



CHILD'S PHONOGRAPH TURNTABLE, 7" dia plastic platter with 115 VAC 60 Hz motor; selector switch for 33-1/3 or 45 RPM. Designed for child's record player. 2 lbs. BSR #M143AC37, NEW, ~~$4.95~~ $3.



SMALL RECORDER PM MOTOR, operates 4 to 12 VDC, reversible. 1/8x3/32" dia shaft; O/A 1⅝x1⅛ dia, 1 lb. #R-357141, NEW $2.; w/pulley $2.25

PRR-9 RECEIVER

AN/PRR-9 FM HELMET RECEIVER, extremely lightweight single channel radio in the 47-57 Mhz FM range; 5 mw nominal power output. Uses CR-81 type crystal (not available); 455 Khz IF. Requires 5 V 25 ma originally supplied by BA-505 battery (not available). With AS-1998 antenna and H-264 headset. 7x3⅜x1⅜, 2 lbs. Used $38. Less AS-1998/H-264 $25.
OPERATOR'S MANUAL for PRR-9, $7.50

ID-1189/PR CHANNEL ALIGNMENT INDICATOR, designed to test AN/PRR-9 and AN/PRT-4 transmitter. Has 47-57 Mhz signal generator; checks both sets' batteries. Instructions, probes, and transit case included. 12x11⅜x6, 15 lbs sh. Used, $45.00

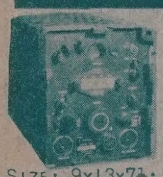
2 TO 12 MHZ TRANSCEIVERS

RT-77/GRC-9 BACKPACK TRANSCEIVER, covers 2-12 Mhz AM CW in bands 2-3.6, 3.6-6.6, and 6.6-12 Mhz; Hi-LO outputs 7/1 watt (AM), 15/5 W (CW). Receiver section has 456 Khz IF and calibration points every 200 Khz. Transmitter can be continuously tuned or two preset channels; uses 2E22 tube in power amp. Set also includes tubes 2/1L4, 3/1R5, 1S5, 3/3A4, 3Q4; requires 580 vdc 100 ma, 6.6 vdc 2 amp, 120 vdc 45 ma, 1.5 vdc 500 ma, 6.9 vdc 575 ma. RT-77 was used in field and vehicular installations with a number of power supplies designed for it such as GN-58 handcrank generator available below, PE-237 6-12-24 VDC vibrator supply, DY-88 (12 VDC) & DY-105 (24 VDC) dynamotor supplies, PP-327 115 VAC supply. 16x13x8, 35 lbs sh. Used, $45.00 MANUAL, $8.50

GN-58 HANDCRANK GENERATOR, with legs, seat, two cranks; powers RT-77 at reduced outputs 3.6 W (AM), 10 W (CW). 39 lbs sh. Used $35.

CONNECTOR for GRC-9 as available, $4 w/set.
HS-30 HEADSET w/CD-604 cord, used, $7.50
T-17 MICROPHONE used $6.95; reconditioned $9.
J-45 LEG IRON w/J-37 KEY, used, $12.00
* *
TRANSMITTER only from RT-77, #XMT/GRC-9, $25.

38 TO 54 MHZ RECEIVER



R-110 RECEIVER 38 TO 54 MHZ FM CONTINUOISLY TUNEABLE, VARIABL SQUELCH AND AUDIO, OUTPUT IMPEDANCE 600 OHMS. 4.3 MHZ. I.F. WITH TUBES 3/1U4,2/1L4,1A3,2/3A5,1S5,2/3Q4,2/6AK5 & 0B2. VOLTAGES REQ. 135 VDC @ 70 MA. AND 6.3 VDC 2 AMPS.
SIZE: 9x13x7½; WT: 32 LBS. USED $35.95

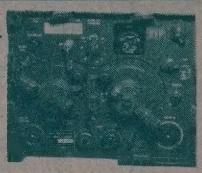
R-108 RECEIVER, SAME AS R-110 ABOVE EXCEPT 20-28 MHZ. USED $21.95

R-109 RECEIVER, SAME AS R-110 ABOVE EXCEPT 27-39 MHZ. USED $27.95

PP-282 POWER SUPPLY 24 VDC FOR R-108-109-110 RECEIVERS. MOUNTS INSIDE REC. USED $5.95

SHOCKED-MOUNTINGS FOR GRC SERIES RADIO SETS ALL HAVE APPROPRIATE CABLES & CONNECTORS THAT GO FROM THE MTG. TO THE SET & BATTERY, BUT THEY DO NOT HAVE JUMPER CABLE UNIT-UNIT.
MT-297/U HOLDS R/T,PS,REC.,RT-70,AM-65.C434
SIZE: 33½x13½x4¾; WT: 75 LBS. UNUSED $30.00
MT-298/U HOLDS TWO (2) R/T & TWO(2) PS.
SIZE:37½x13½x4¾; WT: 85 LBS. USED $20.00
MT-299/U HOLDS ONE RT-66,67,OR 68 & ONE PS
SIZE:18½x13½x4; WT: 50 LBS. UNUSED $25.00
MT-300/U HOLDS (1) RT-70 & AM-65(PIGGYBACK)
SIZE:8½x13x3½; WT: 25 LBS. USED $22.00
MT-327/U holds one RT-66-67-68, one R-108-109-110, one PP-109-110; 32 lbs sh. Unused, $25

RECEIVER-TRANSMITTER



RT-68/GRC TRANSCEIVER, 38-54.9 Mhz FM continously tunable or 100 Khz-step channels or two preset channels. Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45 Mhz and fixed 1.4 Mhz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LO) or 15 W (HI). Also meter to monitor xmitter filaments and 90 V input. Requires external power supply available separately. With tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x11½, 42 lbs. $55.00
RT-66/GRC, as above but 20-27.9 Mhz, $27.50
RT-67/GRC, " " " 27-38.9 Mhz, $35.00

AM-6669/PRC RF POWER AMPLIFIER, designed for use with PRC-41 backpack transceiver, but usable with other 225-400 MHz xmitters such as PRC-66, ARC-45, etc. Power output: 10 watts from 2-3 W input; "N" connections. Solid-state; 24 VDC required. 5.3x6x9.8, 10 lbs sh. Used, $125.

PP-112/GRC 24 VDC POWER SUPPLY for RT-66-67-68 transceivers; provides all voltages from 24 VDC 6.5 amp input. 7½x9x13, 39 lbs sh. Used $25. Unused, $35.

PP-109/GRC SUPPLY, as above but 12 VDC 13 A input; used $34.50

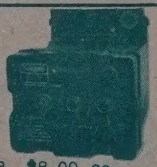
CX-1209 or CX-1210 CABLES f/RT-66-7-8 $10 ea.

PRC-10 RECEIVER-XMITTER

RT-176/PRC-10 RADIO RECEIVER-TRANSMITTER; PORTABLE UNIT OPERATING FROM 38 TO 54.9 MHZ FM VOICE COMMUNICATIONS. THE RECEIVER SECTION HAS AN IF OF 4.3 MHZ AND AN AUDIO OUTPUT IMPED. OF 600 OHMS. TRANSMITTER OUTPUT IS 0.9 WATTS WITH A NORMAL RANGE OF ABOUT FIVE MILES. MICROPHONE INPUT IMPED. 150 OHMS. BOTH RECEIVER AND TRANSMITTER SECTIONS ARE CONTINUOUSLY TUNEABLE. WITH CONTROLS FOR VOLUME, TUNING, SQUELCH, POINTER ADJUST AND DIAL LOCK. CONNECTOR FOR EXTERNAL SPEAKER. WITH TUBES 9/5678, 2/5672, 3/5676, 1AD4 AND 5A6. POWER REQUIRED: 135 VDC, 67 VDC AND 1½ VDC. LESS BATTERY CASE. ACCESSORIES LISTED ELSEWHERE. SIZE: 9½x3x10⅛ WT: 9 LBS.
RT-176/PRC-10, used $29.50; Gov't-recond $40.

RT-174/PRC-8, SAME AS PRC-10 EXCEPT 20.0 TO 27.9 MHZ. USED-COMPLETE, NOT CHECKED, $30.

RT-175/PRC-9, SAME AS PRC-10, EXCEPT 27.0 TO 38.9 MHZ. USED, COMPLETE, $30.00



AM-598 AMPLIFIER POWER SUPPLY, functions as 24 VDC supply and audio amp for PRC-8-9-10 transceivers which plugs into top. With audio cable and tubes 0C3 2/12AT7, 2/26E6, 26Z5; 11½x11½x10¼, 38 lbs sh. Unused $36.00
CX-2031 BATTERY CABLE for AM-598, $8.00 ea.

ACCESSORIES

CY-744/PRC BATTERY CASE f/PRC-8-9-10, $6.00
AT-272A gooseneck antenna base, unused, $2.
AT/PRC6 FLAT RIBBON ANTENNA for PRC-6, $4.00
AB-129 RUBBER BASE f/AT-271 (PRC-8-9-10) $3.
AB-591 TUBBER BASE f/AT-271 (PRC-25-77), $4.
AM-598 SHOCKMOUNT $5. WM-46 CABLE, 10' $10.
M-29 MIC w/UG-77, $5. M-80 MIC w/UG-229 $10
H-189 w/UG229 $12
LS-166/U LOUDSPEAKER Used $12 w/set purchase
GRC/VRC CONNECTORS, specify type and with what equipment used, $3 each w/set purchase.
PLUGS, used: UG-77, metal back $3. UG-229 $4.
CX-1211 CONN. ASSY. f/RT66-7-8 to PP112, $6.
Connector assy. sold only with set purchase.

PRC-6 WALKIE-TALKIE

RT-196/PRC-6 FM TRANSCEIVER, single channel crystal-controlled in the 47 to 55.4 Mhz range. Range: approx. 1 mile depending on terrain and conditions. Handheld unit has push-to-talk switch, volume control, ribbon antenna, carrying strap, and provision for H-33/PT handset. Uses type CR-23 crystal (not included or available). With tubes 6/5678, 3B4, 3/5672, 2/5676, and 2G21. Requires 1.5, 45, and 90 VDC. 15x5x4⅜, 6 lbs sh. Used, $18.95; MANUAL, $7.50
CY-853/PRC-6 CASE, space and padding for 42 crystals; 6⅜x6⅝x1, 2 lbs. Used, $3.00

ID-292/PRC-6 CHANNEL ALIGNMENT INDICATOR, plugs into RT-196 and indicates relative level voltages for B+ filament, osc. injection, limiter, discriminator output, and P-A grid. Also P-A current and calibrate adjust. Unit is basic VTVM with 1¾" sq. FS=500 ua-meter and 5678 tube. Power from set under test. ID-292, unused w/manual, $22.95

GRC/PRC BATTERY TEST

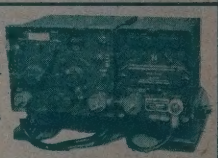
AN/PSM-13 BATTERY TEST SET; DESIGNED TO CHECK GRC AND PRC-TYPE BATTERY PACKS INCLUDING BA-270, -279, -376, -377, -386/PRC-25, -398/PRC-25, -399, AND -505. METER INDICATES BAD-GOOD (FS=1 MA). WITH ADAPTERS U-240, -241, -242, -297, -314, -315, -346 AND CANVAS CASE. SHPG. WT: 7 LBS.
PRICE: USED, EXCELLENT, $24.95

ME-61/GRC FIELD STRENGTH METER 1.4 TO 24 MHZ IN THREE RANGES. WITH VARIABLE TUNING, SENSITIVITY CONTROL, 1¾" SQUARE METER, PHONE JACK AND ANTENNA. SIZE: 5x5x4½ WT: 5 LBS.
Used, $16.95

XMITTER MODULATOR

MD-203/GR MODULATOR, converts a transmitter's CW signals into frequency shift for RTTY transmission. Designed for use with T-195/GRC-19 xmitter, MD-203 is usable with any xmitter with 1.5 to 3 MHz fundamental frequency. Shifts 850 Hz (1.5-3 MHz), 425 Hz (3-6), 212 Hz (6-12), and 106 Hz (12-20). 1 volt min signal input; requires 24-28 VAC 1.8 amp. W/tubes 2BA7, 2BD6, 5/2BA6. 9.3x7.3x13.3, 25 lbs sh. Used, $24.50; power conn, $5 w/set. MANUAL for MD-203, partial repro, $8.50

AM-65/GRC AUDIO AMPLIFIER, 3-channel audio amp for RT-70 and also used for interphone in other GRC-systems. PP-281-282 or 448 power supply may be placed inside to power RT-70. 4½x13x8, 17 lbs sh. Used, $14.95; Unused, $22.95
PP-282 SUPPLY, 24 VDC in for AM65/RT70, $5.



AN/VRC-10 RADIO SET, consists of RT-68, PP-112, MT-299 mount, CX-1211 cable, and manual described separately on this page; 90 lbs sh. Used, $85.00
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PP-281/GRC 12 VDC POWER SUPPLY, allows 12 VDC power f/R-108-109-110 & RT-70/AM-65; 6#. Unused $22.95; PP-282 24 V SUPPLY unused $8.

TECH MANUALS WITH SCHEMATICS FOR:

RT-196/PRC-6...$7.50	
PRC-9A-10A $7.50	AM-598.....$3.00
RT-66,67 & 68..$5.00	PP-109 & 112...$5.00
RT-70.....$5.00	AM-65.....$7.50
R-108, 109 & 110.....	.....$7.50

AN/VRC 13-15 OR AN/VRC 16-18, CONTAIN INFO & SCHEMATICS ON RT-66,67,68, R-108,109,110,PP-109,112, VAR. MTG. CONTROL BOX ES. $7.50

HIGH BAND • FM — TRANSMITTER — RECEIVERS • LOW BAND

R-394/U RECEIVER, 152-172 Mhz FM single channel crystal-controlled. Dual conversion unit has first IF 7.8 Mhz and 455 Khz second IF; also squelch and muting circuits. 8 ohms output impedance. Set features modular construction with plug-in units 1st RF amp, local oscillator, 1st IF amp, 2nd IF and discriminator and audio/squelch. 455 Khz selective filter is wired in. Also has compartment for modular power supply which is listed elsewhere on this page. Includes tubes 14/5678, 4/1AD4, 5672, 5840, 5783, and 6AK6. 8½x5½x14½ 22 lbs. Used ~~$11~~ $8; Gov't-recond ~~$20~~ $15.

R-257 RECEIVER, same as R-394 except covers 25 to 50 Mhz FM, used, $12.95

T-278/U TRANSMITTER F.M. 152 TO 174 MC APPROX. 30 WATTS, CRYSTAL CONTROL ON ANY TWO (2) PRESET FREQ. PHASE SHIFT MODUALTION 15 KC DEVIATION, CR-27/U CRYSTAL UNIT FREQ. RANGE 4750-5437.5 KC. MULTIPLIED 32 TIMES. WITH TUBES 2/3B4,3/2E24,4/5678,2/5672 AND 2/1AD4.

VOLTAGES REQUIRED AS SHOWN WITH DY-93 DYNAMOTOR ELSEWHERE ON THIS PAGE. USED $14.95
SIZE:8½x4½x14½; WT: 12 LBS. UNUSED $19.95
AN/VRC-19 6 VDC RADIO SET, includes R-394, T-278, DY-100, CY-938, C-847; 100 lbs. $40.

VIBRATOR POWER SUPPLIES for R-394 and R-257 receivers; fits inside receivers; 10 lb
PP-867, 24 VDC input, $4.95
PP-868, 12 VDC input, $5.95
PP-846, 115 VAC 60 Hz input, $29.95

DY-93 DYNAMOTOR POWER SUPPLY for use with T-208-278-417 transmitters. Input: 12 VDC 20 amps. Output: 380 VDC 180 ma, 225 VDC 45 ma, -25 VDC 5 ma. 8½x7x14, 29 lbs. Used $9.95

CHASSIS CONNECTORS to fit R-394-257, T-208-278-416-417, DY-93-98
Specify for receiver (P252), transmitter (P401), or power supply (P1203), $2.50 each.

CY-938 EQUIPMENT CABINET houses receiver R-257 or R-394, transmitter T-208 or T-278, power supply DY-93, -98, or -100. Aluminum; 17½x11½x25, 40 lbs sh wt. Used $9.95

URC-68 DISTRESS RADIO

AN/URC-68 DISTRESS TRANSCEIVER, handheld unit designed as an emergency radio for aircraft pilots; operates over 38-42 Mhz FM and 230-250 Mhz using 4 preset channels, voice, MCW, and beacon. All have 40.5 Mhz FM and 243 Mhz UHF channels; other three frequencies depend on selected crystals (not available), 50 Khz spacing. Power output 500 MW (FM), 200 MW (UHF); range 19 miles line of site or 3-5 miles over varied terrain. Includes squelch, built-in microphone, speaker, and antenna. Requires 11-16 VDC originally supplies by BA-1112 battery (not available). 6x3⅝x1¾, 3 lbs sh. Used-reparable

CV-278 FREQUENCY SHIFT CONVERTER designed for RTTY operation of R-392 receiver and T-195 xmitter; usable with any receiver having 450-500 Khz IF. Signal Input and Discriminator meters; 28 VDC 2 A required. 9¼x7¼x13¼, 25 lbs sh. Used $40. Power connect $6 w/set.

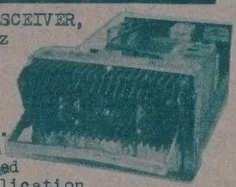
GE 'PROGRESS-LINE'

GE PROGRESS-LINE 50 WATT MOBILE TRANSCEIVER, single channel crystal-controlled in the 144-174 FM Mhz band Has #4ER25C2 receive, #4ET-21A2 transmit, and #4EP2B vibrator power supply sections. Transmit deck uses two 6146 tubes in P.A. Power supply requires two vibrators (not available) for 12 VDC operation. Internal trimmers for antenna tuning, coupling, and P.A plate; 21 tubes. 6½x14¼x15¾. 34 lbs sh. #MA E/36N, used less xtal & cover, ~~$45~~ $30.
S318-CCT CONTROL PLUG, $3. POWER PLUG, $2.50

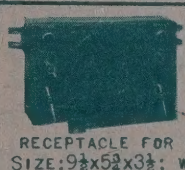
GE CONTROL HEAD for Progress-Line sets; with push-to-talk mic, squelch, volume control, and coil cord. 5 lbs sh wt; used, $13. Less mic, $4.95

MOTOROLA CONTROL HEADS, 1950's styles; similar features as above; used with mic, $11.95

MOTOROLA TRANSCEIVER

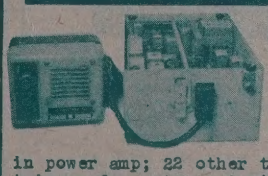


MOTOROLA FM MOBILE TRANSCEIVER, transmits in 144-174 Mhz range, receives between 450-470 Mhz. #TD6050AB transmitter section has output of 25 watts min. (144-167 Mhz), 20 W min. (167-174 Mhz) using single crystal-controlled channel. Crystal multiplication 24 times; 50 ohm output impedance. Has nine tubes including 6146 in power amp. #XRE1000-AH receiver has dual squelch "Private Line" or separate tone-controlled and carrier squelch circuits. Two crystal-controlled channels; 455 Khz final I.F. Audio output 2 watts into 3.2 ohms. With 14 tubes. #XPN-6003B transistorized power supply requires 12 VDC input to supply voltages for transmitter and receiver. Crystals and accessories not available. 6x10x19½, 28 lbs. Used less 6146 tube ~~$17.50~~ $12.50; Schematic set, $5.

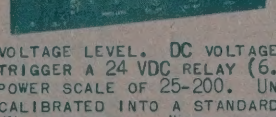


C-847 RADIO CONTROL BOX; USED TO CONTROL THE SYSTEM, HAS HEAVY ALNICO MAGNET 4" SPEAKER FOR MONITORING REC. CONTROLS FOR SQUELCH, VOLUME ON/OFF SW. PILOT LIGHTS AND RECEPTACLE FOR H-33 HANDSET WHICH HAS UG-77
SIZE:9½x5¾x3½; WT: 6 LBS. Unused, $9.95

MOBILE TRANSCEIVER



AN/VRC-51 FM MOBILE TRANSCEIVER, single channel crystal controlled in 132-152 Mhz range; 30 watt output w/6146 in power amp; 22 other tubes. Internal trimers for antenna tuning, coupling, and PA plate. Includes C-3691 solid-state power supply and control which has speaker, volume, and squelch; also interconnect cable. Requires 12 or 24 VDC; Comco mfg. 12½x6½x9, 27 lbs sh. Used, ~~$59.50~~ $39.50



ID-642/FSA RADIO FREQUENCY MONITOR, USES DIRECTIONAL COUPLER WITH IN-21B DIODE TO MONITOR RF VOLTAGE LEVEL. DC VOLTAGE IS AMPLIFIED TO TRIGGER A 24 VDC RELAY (6.5 MA 4PST) OVER A POWER SCALE OF 25-200. UNIT WAS PROBABLY CALIBRATED INTO A STANDARD LOAD. REQUIRES HN CONNECTORS. WITH TUBES: 2/0A2, 5751, 5670 6X4. AND TJ791K01 CURRENT REGULATOR. POWER REQUIRED: 115 VAC 60 Hz. SIZE: 11x19x10½; SHPG. WT: 20 LBS. UNUSED, W/SCHEMATIC, $7.95

C-845 RADIO CONTROL

C-845/U RADIO CONTROL, used with R-394-257 receivers and T-208-278-417 transmitters. Contains three tube microphone amp with line level meter which allows the signal to be adjusted to modulate the transmitter. Also has heavy duty 4" speaker for monitoring a receiver and tone generator for signaling purposes. Controls for intercom, mic level, and speaker volume and UG-77 plug. 600 ohm input impedance. Unit includes PP-846 AC power supply which mounts inside. Requires 115/230 VAC 50-60 Hz. 8½x13¾x13½; 40 lbs sh wt. Used, $44.50 ; schematic, $2.00

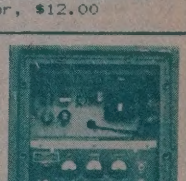
AN/GRC-109 RADIO

AN/GRC-109 RADIO SET, compact Special Forces communication set consisting of receiver, transmitter, and two power supply units described below; each in black cast aluminum cases w/cover. 65 lbs; used-reparable $129.50

R-1004/GRC-109 RECEIVER, covers 3 to 24 Mhz AM-CW in bands 3-6, 6-12, and 12-24 Mhz; 455 Khz IF. Bandwidth 9 Khz. Sensitivity: 5 uv for 10 db signal:noise. 30 MW audio output into 4000 ohms. W/tubes 4/1T4, 1U5, 1L6. Requires 1.5 VDC 300 ma and 90-108 VDC 20 ma 8.6x5.5x5.5, 12 lbs sh.

T-784/GRC-109 TRANSMITTER, 3 to 22 Mhz CW in bands 3-6, 6-10, 10-17, and 17-22 Mhz at 10-15 watts depending on frequency. Crystal frequency control; tuned by adjusting three panel controls according to tuning chart. Has built-in CW key and provision for use with automatic high-speed GRA-71 code-burst keyer (not available). Uses single wire antenna with impedance of 72-1200 ohms. W/tubes 2E26, 6AC7. Requires 450 VDC 100 ma and 6.3 V 1.2 A; 8.6x5.5x5.5, 11 lbs.

PP-2684/GRC-109 POWER SUPPLY, provides all voltages for Rx and Tx plus 6 VDC 3.8 amp battery charge from inputs 75-260 VAC 40-400 Hz, 6.3 VDC 13 amps, or G-43 generator input. 10x8.5x5.5, 28 lbs sh.
PP-2685/GRC-109 POWER SUPPLY, powers Rx and Tx from 75-260 VAC 40-400 Hz input only; 8.6x5.5x5.5, 14 lbs sh.
MANUAL for GRC-109, partial repro, $12.00
CN-690/GRC-109 VOLTAGE REGULATOR, required when set powered by generator, $12.00



PP-638/U POWER SUPPLY USED WITH AM-494 & AM-495 POWER AMPLIFIERS. INPUT 115/230 VOLTS 50/60 CYCLE, OUTPUT 1100 VDC @320 MA, 230 VDC @ 60 MA AND 6.3 VAC @ 5.2 A. 2½" RUGGEDIZED METERS 50 MADC 500 MADC AND 1.5 KVDC ALSO BLOWER FOR COOLING. UPPER COMPARTMENT SIZE 15Wx 9¼ H x 8½ D.
SIZE: 31¾ x 20½ x 24½; WT: 150 LBS.
PRICE: RE-NEW $79.50

PRT-4 XMITTER

AN/PRT-4 MINIATURE TRANSMITTER, designed to operate on two preset channels between 47 and 57 Mhz. Output 450 mw (Ch 1), 50-250 mw (Ch 2); also 150 Hz tone. Has built-in speaker and clips onto belt or pocket. Requires 12 VDC originally supplied by BA-399 battery (not available). Units sold "as-is" less antenna crystals, battery box. 2x4½x2, 2 lbs. $16.95

VERY HIGH VOLTAGE

DC POWER SUPPLY WITH 107-125 VAC 60 Hz PRIMARY. TWO OUTPUTS: -5.4 TO 5.75 Kv. @ 140 TO 300 u-A. ONE OUTPUT: -5.1 TO 5.3 Kv. @ 100 TO 270 u-A. SIZE: 12¾x2⅝x4½ WT: 10 LBS. GE#9T63Y2029G6, USED, $10.95

13 KV SUPPLY

WABASH HIGH VOLTAGE POWER SUPPLY rated 13.5 KV 0.5 MA peak from 120 VAC 60 Hz 30 W max. input. 5.5x6x1.8, 6 lbs #215-0167, unused $9.95

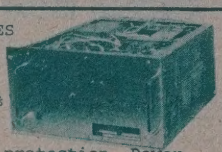
XMITTER SUPPLY

DY-94A/GRC TRANSISTORIZED POWER SUPPLY, provides 550 VDC 150 ma, 250 VDC 120 ma, 20 VDC 20 ma, 200 VDC 100 ma, and 26 V 1.7 A AC or DC from 115/230 VAC 50-65 Hz or 28 VDC input. Looks like good supply for low to medium power transmitters. 9¼x11½x13½, 42 lbs sh wt. Used, $59.50; Connectors (2), $3 each.

PP-2054/GRC POWER SUPPLY for T-893/GRC-50 30 W SHF xmitter; regulated outputs +250 V 200 ma, +150 V 80 ma, +105 V 15 ma and unregulated +800 V 100 m, +650 V 60 ma, +654 V 60 ma, +360 V 80 ma, 115 VAC 2.2 amps. Has transformers 1000 V 300 ma and 435 V 370 ma, 2/6080 tubes, front circuit breaker, AC outlet, and cooling fan. Requires 115 VAC 47-63 Hz; 7½x16x17½, 67 lbs. Used, $54.95

COMPUTER SUPPLY

COMPUTER POWER SUPPLY with popular outputs 28 VDC 9.6 amps and regulated 5 VDC 5 A, 12 VDC 5A, -12 V 2 A, -6.8 V 0.8 A. Operates from 100-125 VAC 60 Hz. Supply has many useful components such as transformer rated 39.8 VCT 8.5 A and 22.7 V 12 A, front panel w/(4) 10x2-7/8x1¼ heatsinks and six 2N3055 transistors, (2) KB25005 bridge rectifiers, capacitors (3) 51000 mf and one 19000 mf 40 VDC, regulator PC card, other parts. Made in Canada for NCR. 10½x14x12, 65 lbs sh. #M32-01-775, $29.95; 2/$50.



SOLID STATE POWER SUPPLIES rated conservatively and constructed on rugged steel frames. Units have front voltage adjust ±10% running light, AC reset. Also adjustable current limiting and overvoltage protection. Power input: 115 VAC 60 Hz. Removed from equipment. Add $10.00 to prices for "checked" units.

RATING	SIZE	Sh Wt	No.	PRICE
4 V 30 A	13.5x7x15.5	65#	926	~~$20.~~ $24
12 V 5 A	9.5x7x16	35#	655	~~$27.~~ $30
20-24 V 5.5 A	9.5x7x20	47#	332	~~$40.~~ $32
30 V 3 A	15.5x7x19.5	38#	889	~~$27.~~ $21

DUAL POWER SUPPLY, same style as above, -32-36 V 14.7 A and -32-36 V 10.3 A; two independent regulators w/common buss. 20x12x14, 125 lbs sh. #450, ~~$60~~ $45

COMPUTER POWER SUPPLY TRANSISTOR REGULATED OPEN CONSTRUCTION WITH ADJUSTABLE VOLTAGE 20% AND CURRENT LIMITING UNITS WHERE OVP IS NOTED ALSO HAVE ADJUSTABLE OVERVOLTAGE PROTECTION. UNITS ARE IN GOOD CONDITION-REPARABLE. ORDER BY RATING AND PART NUMBER.

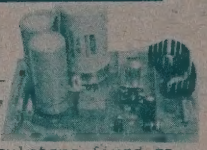
RATING	SIZE	Sh Wt	No.	PRICE
5 V 2 A	4.5x14x5	16#	1012-01	~~$11.~~ $7.
5 V 4 A	"	16#	1014-33	~~$15.~~ $10
8 V 4 A	"	16#	1014-21	~~$14.~~ $8.
12 V 6 A	8.5x14x5	23#	1018-32	~~$37.~~ $24
30 V 3 A	"	23#	1018-33	~~$25.~~ $15
35-40 V 500 W	"	60#	1037-12	~~$35~~ $22

COMPUTER SUPPLIES

COMPUTER POWER SUPPLY, outputs +5 VDC 15 amps and ±12 V 1 A from 115 VAC 60 Hz input. Uses IC regulator to drive 2N3055; also LED status indicators, 4" axial fan, and cover. 6x6½x19 30 lbs. #MA-2149, used $19.95

#FD-2266 DISK DRIVE SUPPLY as above but +5 V 5 A, +24 V 5 A, -5 V 1 A; Wilton mfg. $24.95

DC REGULATOR BOARD

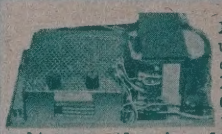


POWER SUPPLY REGULATOR BOARD for supplies +5/-5 regulated 3 amp and upto 24vdc unregulated. W/capacitors 2/15000 mfd 15 V, 33000 mfd 30 vdc, 2/KBPC bridge rectifiers, two 2N6576, 2/2N4441 SCR. Regulators fixed encapsulated circuit boards and replaceable. 7.75x6x4; 3 lbs sh. #MEND-REG-5V, NEW, $6.50

MODULAR SUPPLIES

AC DC #ECV5N6-1 5 VDC 6 AMP MODULAR SUPPLY, +0.05 line and load regulation from 100/117/220/23/240 VAC 47-440 Hz input; 4.9x5.6x2.5, 5 lbs. NEW $17.95

ACME ELECTRIC 15 VDC 6.5 AMP SUPPLY, voltage adjust +0.75 V; +0.1% line and load regulation from 115/220/230 VAC 47-440 Hz input. Also remote sensing and adjustable OLP. 9x4.9x3, 8 lbs. #APH15-6.5, NEW $22.95



PRINTER POWER SUPPLY as used with above. Has AC outputs 2/24, 6, 18, 42-14-0-14-42 V from 115 VAC 60 Hz input. DC rectification required for proper voltages. Also has line filter for external fan, relay for cover interlock, and two fuses. 11x6x4, 18 lbs sh wt. #803-101, ~~$14.95~~ $9

FCC-29/1640 POWER SUPPLY, rated output 40 VDC 30 ma or 35 VDC 40 ma from 115/230 VAC 60 Hz input. However, the transformer is rated 180 VDC 40 ma and 6.3 V 1.7 A out. Also has 10 Hy 55 ma choke, 450 mf 50 VDC capacitor, 6X4 tube. 5½x4½x4½, 5 lbs sh. Used, $9.95

SCOPE POWER SUPPLY

HFE CRT POWER SUPPLY; HAS 6.5 KV LOW CURRENT OUTPUT WHEN USED WITH 10 VDC 1.75 AMPS DC-TO-DC INPUT CONVERTER. WILL PRODUCE 7.5 KV FROM 12 VDC INPUT. OTHER LOW CURRENT OUTPUTS OF -2500 AND -1500 VDC. TRANSISTORIZED WITH COVER AND CONNECTORS. 11x6x5¼, 10 LBS. USED, EXC., $15.95

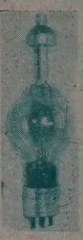
HFE LOW VOLTAGE POWER SUPPLY; OUTPUT: 10 VDC 1.75 AMPS, ADJUSTABLE -1 V. INPUT: 115 VAC 60 Hz. TRANSISTORIZED WITH FUSE AND CONNECTOR. 10½x6½x4; 12 LBS. REMOVED F/EQUIP., $7.95

HFE CRT AND LV POWER SUPPLIES AS SET, $20.00

120 V 20 KHZ SUPPLY

LAMP POWER SUPPLY, an item for the experimenter who finds the 120 VAC 20000 Hz out from 120 VAC 60 Hz input intriguing or finds the supply a good source of usable parts. Consists of two 6x4x1 heatsinks each w/2N3055, transformer w/2-4 VCT 500 ma outputs, ferrite core autotransformers, PC board. 4.8x2.5x3.5, 9 lbs. GE#9T69Y1500-G4, $6.95

UNUSUAL TUBES for collectors and experimenters. Filaments checked but not guaranteed.



JAN 218 RECTIFIER TUBE, 1/2 wave high vacuum; jumbo 3-pin base. 15⅝"Hx5" dia $10.

250TH-R TRIODE w/bad filament 4-pin base; 10"Hx5½ dia, $8.

JAN 705A RECTIFIER, 4-pin base. 5"H x 2¼" dia. $5.

JAN 715B PULSE AMP TETRODE 4-pin base, similar shape as 705A; 5⅝"Hx2⅛" dia. $6.

WESTINGHOUSE CL-2 TUBE WITHIN-A-TUBE, 12½"Hx2" dia $7.

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SAL-219 RADAR MAGNETRON unused $500.

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MAGNETRONS

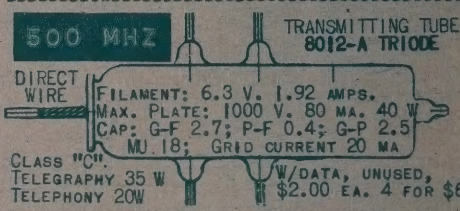
MAGNETRON TUBES LESS EXTERNAL MAGNETICS. USED, $24 EA. SPECIFY:

2J26 (2992-3019 MHz); 2J28 (2939-2965 MHz);
2J29 (2914-2939 MHz); 2J39 (3267-3333 MHz);
2J61 (2992-3100 MHz); 2J62 (2914-3019 MHz);
725A (USED IN APS-4 RADAR).

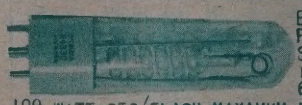
S-300 TUBE (OPEN FILAMENT), 10" LG. 3" DIA. AS-IS, $4.

500 MHZ

TRANSMITTING TUBE 8012-A TRIODE


DIRECT WIRE
FILAMENT: 6.3 V. 1.92 AMPS.
MAX. PLATE: 1000 V. 80 MA. 40 W
CAP: G-F 2.7; P-F 0.4; G-P 2.5
MU 18; GRID CURRENT 20 MA
CLASS "C".
TELEGRAPHY 35 W
TELEPHONY 20W
W/DATA, UNUSED, $2.00 EA. 4 FOR $6.

8025 TRIODE, same as 8012 but 4-pin base, $3.



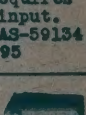
ELECTRONIC PHOTOFLASH TUBE R4330 SYLVANIA, OPERATING VOLTAGE 2250, 6 FLASHES PER/MIN 100 WATT-SEC/FLASH MAXIMUM, PEAK LIGHT OUTPUT 12,000,000 LUMENS, INTERGRATED LIGHT OUTPUT 3500 LUMEN SEC. FLASH. $10 OCTAL CER.SOC. 50¢

CASH REGISTER POWER SUPPLY has outputs +6, +10, +15, -24 VDC from 115 VAC in. Also 6 V gel-cel battery, 6x4.8x1.5 heatsink with 4/TO-3 transistors, and regulator board. 8x8.5x7.3, 22 lbs sh. Origin #202550A unused AS-IS ~~$25~~ $14

MICROCOMPUTER POWER SUPPLY, USES TWO 3-TERMINAL REGULATORS AND A 723 WITH TIP3055 TRANSISTOR. INPUT: 115 VAC 60 Hz; OUTPUT: -25 VDC 180 MA; -5 VDC 800 MA, -15 VDC 1.25 AMPS. WITH SCHEMATIC. SIZE: 3½x5½x4; SHPG. WT: 10 LBS. #ECRPS-744, $10.95

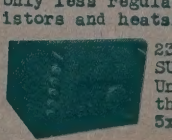
24 VDC 6 AMP SUPPLY

24 VDC 6 AMP POWER SUPPLY originally used in Xerox equipment but usable to power R-392 receiver and other equipment. Requires 105-125 VAC 60 Hz input. 4x9½x8½, 20 lbs. #AS-59134, used-checked, $24.95



12 VDC 3.5 AMPS and 4 VDC 17.5 AMPS from 115 VAC 60 Hz input; has current limiting and overvoltage protection. 4 V output adjusts to 5 V; 14x8½x6, 35 lbs sh. #9566WC, $30.00

#9566-LC, same as above power supply only less regulator cards. Has output transistors and heatsinks; nice foundation, $20.



230 VDC TRANSISTORIZED POWER SUPPLY, 115 VAC 60 Hz input. Units marked "200 VDC" but they test at 240 VDC 300 ma. 5x4x5, 15 lbs. #3930, NEW, $22

CATHODE RAY

CRT'S, pull-outs or unused.

		5AP1	$10.00
902	17.50	5ABP1	30.00
3ACP7	15.00	5BP1	12.00
3ADP1	25.00	5BP1A	20.00
3BP1	17.50	5BHP2	50.00
3CP1S1	3.00	5CP1/7	15.00
3DP1	6.00	5EDP7	28.00
3E33P7	20.00	5CLP11	35.00
3FP7	6.00	5FP7	12.00
3RP1A	30.00	5FP14	15.00
3HP7	3.00	5GP1	15.00
3JP1	12.00	5JP1	12.00
3JP12	12.00		
3RP1	20.00	5UP1	30.00
K135P7	25.00	7BP7	15.00
		7CP7	15.00
4FP7	25.00	12FP7	5.00

* * * * * * * * * * * * * * * *

5DEP31 FLAT-FACED CRT, used in Heath scopes; replaces 5UP1 with simple socket wiring change. NEW ~~$28~~ $17. SOCKET for 5DEP31, $2.50

TUBE SHIELDS & SOCKETS for 3BP1 or 3RP1 CRT's $5.50 ea
Shield only $4/Socket $2.50

SHIELD FOR 5CP1, 5½" FACE, 2½" NECK, 14" LONG, $5.00
SOCKET 5CP1 $3; 5BP1, $2.50
MU-SHIELD FOR 2" CRT, $6.95

SPECIAL TUBES

USED CHECKED		INDUSTRIAL
$1.50	$1.75	3B28 used $6
5651	6005	3B28 un $12
5687	6099	4B32 un $16
5751	2050	6080 used $4
6004	5654	5550 used $5
5814	5749	8020 un $22
6096	5750	WE-310A u $5
5672SL	5763	WE-421A u $8
5676SL	6201	- - - - - -
5678SL	6112	6032 IMAGE
5840SL		TUBE NEW $10

U=USED, CHECKED; UN=UNUSED

1AE4	U	$1.50	866	U	$4.50
2C43	U	$12.	- - - - - - -		
2C46	U	10.	954/955/956		
2K25	U	18.	958/991		
3C22	UN	10.	1616/1619		
726B	U	18.	1624/1626		
4J31	UN	28.	Used $1.50		
5J33	UN	25.	Unused $2.50		
5933/807W	u	$5	- - - - - - -		
250TH	U	40.	1625	U	$2.50
6159	U	$4.		Un	4.50
100TH	U	27.	1629	U	2.50
807	U	3.	5A6	U	4.50
814	Un	8.	6L6M	U	5.00
829B	U	10.	6BQ5	U	2.00
832A	U	8.		Un	3.00
808	Un	$2.50	6BA7	Un	3.00
12BY7	Un	3.50	6DG6	Un	4.00

5146B, NEW mfg. $8.95

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1A3 1A4 1A5 1A6 1A7 1B3 1B4
1B5 1C5 1C6 1D5 1E7 1F4 1F3
1G6 1H6 1J3 1J6 1K3 1L4 1N5
1N6 1P5 1R4 1R5 1S2 1S4 1S5
1T4 1U4 1X2 1V2 1LA4 1LA6
1LC5 1LC6 1LH4 1LN5

USED, $1.50; UNUSED, $3.00

3A4 3A5 3B4 3Q4 3S4

2X2 used, $1.50; unused $3
2E24 or 2E26 used, $3.00
2E22 or 5A6, used, $4.50

USED, $1.50; UNUSED, $2.50

5R4G 5T4 5T8 5U4G 5U8 5V3
5V4 5W4 5Y3G 5X4 5Z4

USED, $1.50; UNUSED, $2.50
ADD 25¢ EA. FOR METAL TYPE.

6AB4 6AB7 6AC5 6AC7 6AF3
6AF4 6AF5 6AF9 6AFII 6AG5
6AH4 6AK5 6AK6 6AL5
6AQ5 6AQ7 6AN5 6AN8 6AR6
6AS5 6AS6 6AS7 6AT6 6AU4
6AU5 6AU6 6AU7 6AY3 6AW8
6AV5 6AV6 6AX4 6AX5
6BAII 6BC5 6BC8 6BE3
6BF5 6BH6 6BJ3 6BK4 6BK5
6BK7 6BL7 6BN4 6BN6 6BQ7
6BC6 6BX7 6BU8 6BZ6 6BZ7
6CB5 6CB6 6CF6 6CG3 6CG8
6CG7 6CG8 6CL6 6CM7 6CS6
6CS7 6CU5 6CU8 6CY5 6CY7
6CX8 6DA4 6DE6 6DK6 6DK7
6DG6 6DQ5 6DQ6 6DN6 6DN7
6EA4 6EA7 6EH4 6EJ7
6EM5 6EM7 6EU7 6ES5
6FQ7 6FY7 6FW5 6FM7 6GF7
6GH8 6GK5 6GJ7 6GW6 6GM6
6HA5 6HB7 6HM5 6JH6
6JT8 6JU8 6KA8 6KD8
6KZ8 6LM8 6LU8 6SA7
6SC7 6SD7 6SF5 6SH7 6SJ7
6SK7 6SL7 6SN7 6SR7 6ST7
6SU7 6ZY5

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Many other tubes in stock. No complete list available. WRITE us your needs. WE WILL SHIP "USED-CHECKED" TUBES IF "UNUSED" SOLD OUT, UNLESS YOU SPECIFY "UNUSED ONLY"

USED, $1.50; UNUSED, $3.00

6A6 6A7 6A8
6B6 6B8 6C4
6C6 6F5 6F8 6G6 6H6
6K4 6K6 6K7 6K8 6J4 6J5
6J6 ~~6J7~~ 6J8 6L4 6L7
6N4 6N7 6Q7 6T8 6T7 6T4
6U6 6U8 6V6 6V8 6V7
6V3 6W4 6W6 6Y6 6Z7 6X5
6X4 6X8 6Z4

USED, CHKD., $2. UNUSED, $3

7A4 7A5 7A6 7A7 7A8 7B5
7B6 7B7 7B8 7C4 7C5 7C7
7E7 7K7 7L7 7T7 7X7
7V7 7W7 7Q7 7S7 7Y4
7Z4 7AD7 7AU7 7AH7 7AG7
14A5 14A7 14B8 14C5 14C7
14E6 14F6 14F7 14N7 14R7
14S7 14W7 28D7

USED, $1.50; UNUSED, $2.50
ADD 25¢ EA. FOR METAL TYPE.

12A5 12A6 12A8 12C8 12B4
12D4 12H6 12J5 12J7 12K7
12K8 12L6 12Q7 12W6 12X3
12Z3 12AC6 12AF6 12AH7
12AL7 12AU7 12AX4 12AX7
12AZ7 12BA6 12BA7 12BE6
12BH7 12BF6 12CA5
12DQ6 12SF5 12SG7 12SH7
12SJ7 12SK7 12SL7 12SN7
12SR7 12AT7 12AU6

USED, $1.50; UNUSED, $2.50

8BQ7 8B10 9KZ8 10EG7 10DE7
15KY8 17D4 17BFII 17AX4
17GW6 17DQ6 19AU4 19T8
21JV6 21GY5 22JM6 23Z9
25L6 25W4 25DN6 25BQ6 25Z5
25Z6 32L7 35B5 35C5 35L6
35A5 35Z3 35Z4 35Z5 35Y4
50A5 50C5 50C6 50L6 50X6
50HK6 70L7 117Z4 117Z6

USED-CHECKED, $3 ea: 26A6, 26A7 26D6 26E6 26Q6
-USED-CHKD $2.50; UNUSED $4
9001 9002 9003 9004 9006

OLD TUBES as available
USED, $2.50; UNUSED $4.00

19	24	27	30	31	32
33	34	35/51	36	37	
38	39/44	41	46		
52	55		57	58	76
77	78	79	81	85	89/Y

USED-CHKD $3. UNUSED $4.50
10/VT-25 22 42 47 80

71A UNUSED-BOXED, $5.50

* * * * * * * * * * * * * * * *

"EYE" TUBES, used, checked 6U5/6E5 or 6AL7, $5.00 ea

811 811 checked $7.50

USED, CHECKED, (WRITE) 813

837 USED, CHECKED, $4.00

POWER AMP tubes, used-chkd unless otherwise noted; (stt)- subject-to-your-test

* * * * * * * * * * * * * * * *

2C39A, 6 V fil., $6.00
3CX100A5, 6 V fil., $7.50
3CX100A5 unused $18.00
4X150D, 26 V fil., $10.00
4X150G, coaxial, (stt) $20
4X250F, 26 V fil., $12.50
3CX2500A3, unused, $300.00
4-125A/4D21, (stt), $32.00
4E27/5-125B, (stt), $24.00
4E27/5-125B, unused, $30.
5894, (stt), $22.00
4CX250R 6 V fil unused $50.

* * * * * * * * * * * * * * * *

SOLID-STATE TUBE REPLACEMENTS, long-life; unused:
1N1239 replaces 5R4, $6.95
1N2637 +/ 3B28, 836 $14.95
SST-4B32 for 4B32, $22.95

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RELAYS

DELTROL 105ML MAGNETIC LATCHING RELAY, one SPST norm open; other SPST norm clsd. Actuates 15 VDC min. Octal base. 2x3⅛x2, removed $3.95

2PDT 48 VDC 3700 ohm coil; 5/8x1-7/8. MHX124 used $1.

4PDT 48 VDC 3700 ohm coil; 1-5/8x2. MHX4069 used $1.

2PDT 26 VDC 675 ohm coil, 2 amp; sealed, solder hooks. 3/8x1¼x¾, #30-01G used $2.00

2PDT 26 VDC 830 ohm coil, 2 amp; sealed, solder hooks. 3/8x1¼x3/8, #J26L4H6A $2.50

OMRON 3PDT RELAY w/24 VDC 650 ohm coil; 2 A contacts. 11-pin solder/plug-in lugs. 1x1⅝x1¾; #OM-MY3 unused $2.

Sealed SENSITIVE RELAY, 50 ohm 28 ma coil; DPDT contacts. Solder hooks; 1x1x2½. #R400-2B-50, $2.95

90 V 60 Hz 3PDT octal KA4187 $2.

DPDT 115 V 60 Hz 5 A contacts; octal. KR5737 $2.50

4PDT 120 VAC, 3 AMP CONTACTS; 28 VDC 3 A RES. PLUG-IN SOLDER. ¾x1x1½, #KH4695, $1.50

4PDT 24 VDC, 120 VAC 3 A 24 VDC 3 A RES. CONTACTS. PLUG-IN SOLDER TYPE. ¾x1x1½, #KH-4703, $1.75 EA.

ALARM PC BOARDS w/soldered relays, 3-LED's, transisters, etc; 4½x1⅝x6 #556015, 2-Sigma 70RE22ST-1000 DPDT 12 VDC relays w/2 A 28 VDC/115 VAC contacts; $3.25 #556168, 2-P&B R10S-E2-Z4-J500 sensitive relays, 500 ohm 9 ma coil; 4PDT 2 amp contacts, $3.75 #556-01R, one P&B R10-E49-04-3 4PDT relay, 12 VDC 1000 ohm coil, 2 A; also Klixon 2 A cir-breaker, $3

12 VDC 4PDT relay similar to P&B KHU-Series. 115 VAC 3 amp contacts; solder or socket-type mount. #4CH12D, NEW, $2.95

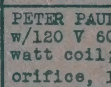
MINITURE PLUG-IN, 28VDC,600 OHM,DPDT 2 AMP.FILTORS 1060 6555-1;#5945-987-8401 $3.00

MAGNACRAFT SPDT, 12 VDC 10 amp contacts, 100 ohms. Open frame; 1⅝x1¼x1. #88X-150A NEW $2.50 ea.

SENSTIVE RELAY, 6 VDC, ONE POLE MAKE AND BREAK. 600 OHMS. 2⅜x2⅜x1⅝. #ZA/CAN1304 PRICE: $1.00

SENSITIVE, SPDT 6-12 VDC 1500 ohms, contact adjust. 2¾x2¼x2¼; #RM39-1901, $1.00

SENSITIVE RELAY, 300 ohm coil res; operates @ 2.05 VDC. #K111801-1, $2.00



PETER PAUL VALVE w/120 V 60 Hz 9 watt coil; 1/8" orifice, 11½"L hose. SER-GH 90 psi; 2 lbs. #PP-32NfDGW, unused, $4.95

ASCO RED-HAT VALVE, 3/8" air orifice/pipe; 120 V 60 Hz 6 W. 2 lbs; unused, $5.

POLAR RELAY, Type 255A, various manufacturers; black or grey case. 2⅝x5⅛x2⅝, 3 lbs. #D163119A NEW $3.25

12 VDC CONTACTOR, SPST n.o. 27 ohm coil; contacts 28 VDC 50 amps. P/o MT-297 mount. 3½ x2x2⅛, 1 lb. #GH-1679 $4.

115 VAC 60 Hz COIL 25 amp @ 28 VDC/115 VAC contacts; solder terminals. 1⅝x3x1⅝; Kurmelec #26S20/2054 used $5.

OPEN FRAME DPDT RELAYS 10 amp contacts; size 2¾x1-5/8x1-5/

#K104/HRX-1 CERAMIC 24 VDC no aux contact. NEW $4.50

#410272 DPDT 10 A contacts: SPST N.O. aux cont. 28V 182 coil; micalex insltrs, $5

P&B PR-80164 OPEN FRAME, SPST n.o. 12 VDC; contacts 120 VAC 5 A. 2⅛x 2⅛x2¼, unused, $2.50

ROTARY RELAY 28 VDC 4-wafer horiz-shaft; 1/2-break, 2/1-make 1-break, 1/3-make 2-break. 3-1/8x2x2 #K101/6 $3

ROTARY, 28 VDC two wafers vert-shaft; 1-make 1-break, 3-make. 2½x2x1½ #K102, $2.75

ROWAN CONTACTOR, TWO POLE CONTACTS RATED 15 A 250 VAC, 10/15 A 100/50 VDC. COIL VOLTAGE 100/115 VDC. 3-3/8x2⅛ x2½. ROWAN #FE20, USED, $2.

RELAY 1PDT & 1PST, CONT. 28VDC 1A. MAX. PICK UP .9MA, DROP-OUT.1MA. 16000 OHMS OCTAL BASE. SIG#80110 $2.95

SPDT, SINGLE BREAK, 28 VDC 1 A. CONT. 800 OHMS DC COIL, 3MA PICK-UP, 1.5 MA HOLD, .75MA. MIN. OCTAL BAS SIG#77912 $2.95

ADVANCE SEALED RELAY 3 STUD MOUNTING, SOLDER TERMINALS. SIZE: 1⅛x2x1⅝; 2 oz. PT#420-68-0211;4PDT 26.5 VDC, RES. 325 OHMS, 2 AMP. CONT. $1.50

STRUTHERS-DUNN CONTACTOR, 12 VDC coil, 24 VDC 50 A contacts. 3½x3½ x2⅝, 2 lbs sh. #KS5722L $3.95

GE#3SBW1001A2 SPDT 9.6-15.8 VDC relay 206 ohm coil; used in GE mobile transceivers. F/solder or socket connections. 1x1 x⅝. New, $1.50. 24/$25.00

ROTARY RELAY 28 VDC, operates at 15 V; holds at 5 V. 2½x 1-3/8x2, 2 lb. #5533/HK22, removed, $2.

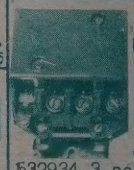
SPST 24 VDC OPEN FRAME, 25 amp contacts; 3-1/8x1-3/8 x1½. #B-2A-OFF unused $1.75

Parelco DPDT #R10-E2-Y2, 12 VDC 1 A contacts; PC board or socket mount. No socket. $1.50

DELTROL #20765-83 DPDT 12 VDC 6 A; plastic case, PCB mount. 1-1/8x½x1, NEW $2.50

GUARDIAN DPDT 115 VAC ¼ HP 10 A; solder terminals, plastic case. 1⅝x1⅝x1½. #A410-361342, NEW, $2.50

POWERFUL 12 VDC SOLENOID, ⅝" max draw approx -very strong. Coil res approx 0.75 ohm; we recommend a capacitor discharge-type DC supply for this. Requires 1" threaded dia nut for mount. 4x1⅝ dia; 2 lbs sh. #12V-SOLWIND unused $3.



ROWAN CONTACTORS COIL 110v 50/60Hz FULL LOAD RUNNING CURRENT 10 AMP. LOCKED ROTOR CURRENT 60 AMP. 600 V. MAX.

532934 3 POLE USED $4.95

532935 4 POLE USED $5.95

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LEDEX

LEDEX HEAVY DUTY SOLENOID #S-8210-025, 8-position 45° stroke, 28 VDC Starting torque: 5 lb-in @ 35 watts (15 lb-in holding) continuous duty. Upto 32.8 lb-in starting torq. @ 700 watts 1/20 duty. 7S size: 2¾" dia x 1-7/8" with ⅜"x3/8" dia. shaft. 4 lbs. Unused, $4.95

OPEN FRAME, SPDT 5.5-7.5 VAC coil; CONTACTS RATED 5 A 115 VAC. 1⅝x1x1-3/8 #5945-233-1398, $1.25

ALLIED CONTROL T255X-18, coil 115 VAC 2580 OHMS. GOLD-PLATED DPDT CONTACTS RATED 5 A 29 VDC. ⅝x-7/8 x1-3/8. UNUSED, $3.00 EA.

4PDT RELAYS, 110 VDC, heavy contacts. 2x2x1¾. Removed. #DOX187T, 5000 coil, $2.00 #DOX137T, 24 VDC 230Ω $1.50

DUAL COIL each 3PST; one 24 VDC, other 48 VDC. PCB mtg. 2½x½x1¼; #116-2601, $2.50

TIME DELAY/SEQUENCE RELAY, has 3-SPDT & 1-DPDT 12 VDC 6 A. relays. Delay sequence ON/3.5s/5.0s/10 sec. Solid-state w/24 V 1 amp transformer, 250 mfd 50 VDC cap. 115 VAC 60 Hz input. 7½x3¾x3¼, 3 lbs sh. #140-P197C $6.95

SIGMA DC RELAYS; OPEN-FRAME, 2 AMP CONTACTS, 1⅛x2¼x1⅛ REMOVED F/EQUIP.

#41F500SIL 6 VDC 5A, $1.25
#41F1000SIL, 12 VDC, $1.50

GUARDIAN ROTO-MITE STEPPER, 12 VDC 12 position 3 amps resitive. 3x 1½x1¾; #706-12P-12D NEW $4.

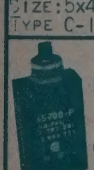
LEDEX PUSH-PULL SOLENOID, 24 VDC short-stroke flat-face; size 5, 1-7/8" dia. 2 lbs. #124-033-001 NEW $3.

* * * * * * * * * * * * * * *

DOLLAR DAZE RELAY PC BOARD, 3-SPDT 12 VDC relays in 1x5/8x2¾ plastic cases $1.50

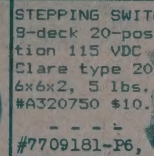
45-83

RHEOSTAT CONTROL UNIT FOR HEATED CLOTHING; 100 WATT 5.75 OHM RHEOSTAT MOUNTED IN CONTROL BOX WITH INDICTOR KNOB ALSO ON/OFF SWITCH & DUAL LOCKING TYPE SOCKETS FOR INPUT AND CONTROLLED OUTPUT VOLTAGES. SIZE:5x4x2; WT: 3 LBS. TYPE C-IC UNUSED $2.95



E-T-A CIRCUIT RESET push switches, type 45-700-P. Fits into 3/8" hole; requires 2" depth. O/A 1¾x2⅝x⅞; Used. 250 VAC 5 amp, $2.
" " 15 A, $2.50

MUTER 433-AC 10K OHM POT, 1930's-40's precision pot; ¼" dia shaft. 3¼x5¼" dia. Unused $4.



STEPPING SWITCH 9-deck 20-position 115 VDC Clare type 20 6x6x2, 5 lbs. #A320750 $10.

#7709181-P6, 9-deck 25-pos 24 VDC $7.50
#PW15551l type 44, 5-deck 10 position 24 VDC, $6.95

ELECTROL 5 VDC 280 ohm REED RELAY; 2½x⅝x¾. #R-4376-2 $2

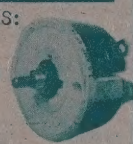
P&B KR-4175-1 DP-DT PLATE RELAY; sealed metal can, requires octal socket. 2⅜x1⅛x1-3/8. Unused, $2.00

P & B 3PDT PLUG-IN TYPE RELAY WITH 24 VDC COIL. 120 VAC 10 A. CONTACTS. #KUP14D15, w/SOCKET, $2.95

AC CONTROL RELAY, 120 VAC COIL; SPST N. OPEN 10 A. AND SPST N. CLSD. 10 A. CONTACTS. SEALED CAN, SOLDER TERM. 3 STUD MTG. 2½x 1¼x1⅝. #7321/6717, $2.50

ROTARY SOLENOID has 48 VDC coil and 3/1½" dia wafers w/complex switching action. Sold for solenoid only. Ledex #B-61818A used $2.00

RHEOSTATS



RHEOSTAT VALUES: FIRST SET OF NUMBERS AFTER RHEO-PREFIX IS THE WATTAGE. YOU INDICATE DESIRED OHMS IN SECOND SET. SCD= SCREWDRIVER ADJUST.

#RHEO-25W-(ohms), $1.25				
1	2	5	6	10
	15	25	35	50
	60	75	100	125
175	200	250	300	350
400	500	600scd	1K	1500
2500	3500	5K	10K	20K

#RHEO-50W-(ohms), $1.75 ea				
6	8.5	12	15	16
17.5	20	30	35	45
50	60	150	200	225
375	220	500	2.5Kscd	10K

#RHEO-75W- 15 25 $2.25
#RHEO-100W- 20 ohm, $2.75
#RHEO-150W- 750 ohms, $3.50
#RHEO-300W- 0.2 ohms, $9.95

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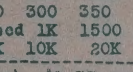
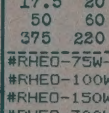


#CP800/50K, 50K ohms 12-step 5%, used $4.50
#T800/50K, 10-step "L" 1% $7.

300 WATT 0.2 ohms, NEW, $10



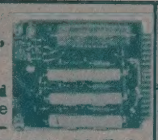
MIRRA 25 WATT "ANTIQUE" POTS w/ knob and pointer. Looks like those used in 1920's radios. Specify ohms: 6, 250, or 400. Unused, $4.50

10-T HELIPOTS

10-TURN HELIPOTS 2"Lx1¾" dia; ¼" dia shafts. Used.
10K OHMS 3-term 5%, ⅜"L shft $3
30K OHMS 3-term 3%, ⅜"L shft $3
50K OHMS 3-term 3%, 1/8" sht $3.

ATTENUATOR NETWORKS #ATT/SG15, balanced "H" 600/600 ohm; 0-70 db, eight steps. Used $8.

REED RELAY CIRCUIT BOARD, 3/500 ohm and one 5K ohm 10-15 VDC reed relays w/large 1/8x1/16" contact area. Also one 26 VDC DPDT sealed relay 3/8x¼x7/8 #792-312, unused, $3.95



CRYSTALS

FT-241 CRYSTALS f/BC-604, 684; channels 0-79. No choice 3/$1. Choice $1.50

200 KHZ FT-241 XTAL, $3.50

1000 Khz CRYSTAL, temp. coeff. 0.0001% (±10 Hz/°C. Octal base; f/BC221-TS323-LM21 freq. meters. Socket wiring may be changed. $12.

JK-02 CRYSTAL OVEN FOR CR-26 CRYSTALS OPERATES FROM 6.3-24.2 V. AC/DC, OCTAL BASE. MOTOROLA #25IB1001 FOR ONE CRYSTAL AS USED IN R-394-257 RECEIVERS. $1.95 MOTOROLA#25IB1003 FOR TWO CRYSTALS AS USED IN T-278-208 ETC. TRANSMITTERS $2.50

3.6 MHz CRYSTAL OVEN, octal based unit has CR-28 type crystal; 110 VAC. 4x1.8x1.5 1 lb. #Y501/FR-5, used, $7.

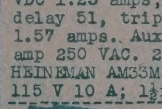
12.0 MHZ CRYSTAL OVEN octal based unit has CR-36 crystal; 24 VDC. 1.8x1.3" dia; #XTL-MD203, used, $4.95

AN-3160 PUSH-BUTTON aircraft circuit breaker, 24-30 VDC; 5 or 10 amp, $1.25 ea

HEINEMAN MODEL AM12HK, 2⅝x2½x2¼ 12 VDC 3 A $1.25
50 VDC 3 A $1.35
50 VDC 40A $1.50
AM1516 50 V 100A 4x3¼x1 $4.
AM12 115 VAC 60 Hz $1.50 ea
AMPS: .93, 1.75, 4.2, 5.15

AIRPAX UPI1-11-676 65 VDC 45 A; delay 51, trip 56.25 A. 2½x2⅝x2¼. NEW $3.

#UPG1-1REC2, 65 VDC 1.25 amps; delay 51, trip 1.57 amps. Aux switch 10 amp 250 VAC. 2x1⅝x2¼, $3.00
HEINEMAN AM33MG3, two pole 115 V 10 A; 1½x2⅝x2¼ $2.50



HEINEMAN CD2 type CIRCUIT BREAKERS, ganged two pole; 4⅝x2x4 2 lbs. NEW

#CD2-Z10-1, Rt 0.035 A DC Cur P. Lt 68 A 270 VAC 60 Hz Cur 3. $4.00
#CD2-Z74-2, 10 A 132 VAC 60 Hz T.D. 2; 125 A 10 VDC T.D. 3. $4.25
#CD2-A3-DU, two 18 amp 240 VAC T.D. 1. $4.50

P&B #375-207-101, 7 amp 250 VAC or 32 VDC max. Recessed button. ½x1⅛x1⅜. NEW, $1.25

HEINEMAN CIRCUIT BREAKERS:
#AM2511M6, 230 V 3.7 amps 3⅝x3½x1, used $2.25 ea
#JA2-A8-A, 240 VAC; hold 17 A, trip 21.25 A. $2.

MAGAZINES

We carry current issues of CQ $2.00 QST $2.50 Ham Radio $2.50 73 $2.50

BOOKS & TECH MANUALS

$4.00 each

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AM-598
PP-867-868
-869
TV-7 TUBE TEST DATA, 1/62 ed
PP-846
DY-93-98-100
ARC-27 O.I.
ARN-59 O.I.

$5.00 each

RT-66-67-68
RT-70
AM-65
R-520 (mil-Zenith Transoceani
BC-191
BC-375
RU-19
BC-221AH only
PP-281-282
-484 repro
PP-804
PP-109-112
AN-26

$5.00 each

FP-1175
FU-143C
RD-60
AN/GSC-1
I-208
AN/PDR-27

$7.50 each

BC-312-342
BC-603-604
SX-28 repro
BC-652-653
BC-659
AN/VRC-7
BC-1000
BC-1335
AN/FRC-6
PRC-9A-10A
AN/GRR-5
R-108-109
-110
R-257
R-394
T-278-416
AN/ARN-12
AN/ORT-3

FGC-20 & 21 contains TT-98, -99, -100 and PP-978, $10.

TERMS: All manuals include maintenance info & schematic unless noted otherwise. O.I. Operating info only N.S. No schematic repro -Partial reproduction w/operating, maintenance info & schematic.

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AN/ARC-5 BENCH TEST and ALIGNMENT, covers necessary info to align R-23A, R-148, R-25-26-27 receivers; T-18 thru T-22 xmitters; and MD-7 modulator. W/schematics; repro. $7.50

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R-105/ARR-15 repro		$15.00
AN/ARC-38	repro	17.00
AN/ARC-38A	repro	20.00
RT427/ARC-39	repro	10.00
AN/ARC-44		8.50
ARC-60 (R19-CV431)		8.50
ARC TYPE 12 including R-10-11-15-19, T-11-13, and related equip.		8.50
AN/ARN-30	repro	10.00
R-648/ARR-41	repro	15.00
AN/ART-13 transmitter only,	repro	12.00
AN/APR-4	repro	10.00
AN/GRC-9		8.50
AN/GRC-10		8.50
AN/GRC-19		10.00
AN/ARR-52	repro	17.00
R-395/PRD-1	repro	15.00
AN/TRC-1 (T-14, R-19, and AM-8 pwr amp)		8.50
AN/TRC-8 (T30/R-48)		8.50
AN/VRC-19 (R394/T278)		8.50
R-391/URR	repro	17.00
BC-AS-229	repro	8.50
BC-348-J-N-Q	repro	10.00
BC-348-K-L-R	repro	10.00
BC-624/625	repro	15.00
BC-639	repro	8.50
BC-669	repro	8.50
BC-779/1004		10.00
CV-157	repro	15.00
CV-591 (MSR-4)	repro	8.50
R-140 (HRO-5)	repro	10.00
R-220/URR-29		$12.00
R-274	repro	12.00
R-388 (51J3)	repro	10.00
R-390	repro	15.00
R-390A	repro	15.00
R-392	repro	15.00
SP-600-JX	repro	10.00
T-195/GRC-19	repro	15.00
TCS-12	repro	12.00

U.S. ARMOR COMMUNICATIONS ELECTRONICS DATA (book), July 1973; descriptions of mil-radio equipment, $3.00

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A USERS GUIDE TO ARC CORP RECEIVERS --by M. Tauson; ARC-5, ARC-type 12 etc. $4.

MAINTENANCE TM for Collins 490T-1 (CU-1658/1669), $14.

LOW & MEDIUM FREQUENCY SCRAPBOOK, 4th Ed. $9.95

TI SEMICONDUCTOR MEMORY BOOK (1975), 272 pp, $1.00

SCHEMATICS

REPRODUCTIONS of schematics $1.50 and up. WRITE.

TEST EQUIPMENT MANUALS

AN/TRM-1	repro	$10.00
AN/URM-25D	repro	10.00
AN/URM-25F	repro	10.00
AN/URM-26B	repro	12.00
SG-12/URM-48	repro	12.00
TS-403/URM-61	repro	12.00
TS-621/URM-52	repro	10.00
FR-5/URM-80		7.50
TS-510/USM-44	repro	10.00
AN/USM-50	repro	10.00
AN/USM-105	repro	17.00
AN/USM-116	repro	10.00
AN/USM-117	repro	15.00
AN/USM-140	repro	17.00
FR-149/USM-159	repro	10.00
BC-221 f/most models		7.50

Reproductions $8.50 each:

ME-6D	ME-26	QS-8
SG-92	TS-148	TS-352
TS-375	TS-382	TS-433B
TS-497B	TS-505	TS-1060
	IP-173B	PRM-10

TV-2, -7 or -10A $10 ea.

TEK G	$6.00	TEK H	$6.00
W	6.00	1A1	8.50
1A2	7.50	1A4	7.50
1A5	7.50	130	6.00
131	6.00	132	6.00
453	8.50		

CA partial repro, 8.50
HICKOK 1805, part-repro $15

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GRC-14/MRC-55 MANUAL f/T631 R808, PP1171; original $22
PARTIAL REPRODUCTIONS:
SCR-509/510 (BC-620) $10.
SCR-608/628 (BC-683-684) $10
CV-1982/TSC-26 $10.00

ARRL BOOKS

1985 RADIO AMATEUR HANDBOOK $15.

SOLID STATE DESIGN f/amateurs $7.
ANTENNA BOOK, theory and instruction on antennas, $8.
ANTENNA ANTHOLOGY, articles from QST on antennas, $4.
LICENSE MANUAL, 80th Ed; study guide $4.00
UNDERSTANDING AMATEUR RADIO, an introduction, ~~$5.00~~ $4.
THE SATELLITE EXPERIMENTER'S HANDBOOK, $10.
HINTS & KINKS, ~~$4.00~~ $3.
FM & REPEATERS, ~~$5.00~~ $4
ARRL LOG BOOK, $1.75
RADIO FREQUENCY INTERFERENCE, $8.
TUNE IN THE WORLD OF HAM RADIO, wkbook & casstte $8.50
BASIC BOOK OF HAM RADIO, $4.95 WEEKEND PROJECTS, $3.00
200 METERS AND DOWN, $4.00

VINTAGE RADIO

VINTAGE RADIO 1887-1929, pictoral story of radio's early years; 1000+ pictures and commentary, 263 pp. Softbound, $9.95;
A FLICK OF THE SWITCH 1930-1950, sequel w/TV, $9.95
1921-1932 RADIO COLLECTOR'S GUIDE, listing of over 9000 radios, 1100 mfgs; 263 pp. Softbound, $9.95
MOST-OFTEN-NEEDED 1926-1938 RADIO DIAGRAMS, reprint of Beitman's book of 600 old radio schematics, $9.95

225-399.9 MHZ RECEIVER

R-278 RECEIVER, 225 to 399.9 Mhz AM; crystal frequency control for 1750 channels in 100 Khz steps; ten preset channels. Audio freq response: 200 Hz-20 Khz (wide), 200-5 Khz (narrow). Has AVC, squelch, and 44 tubes; unitized chassis, rackmount. 12¾x19½x20, 115 lbs sh wt. Used, less guard channel, reparable, $125. MANUAL, partial repro, $15. Schematic, $2.50

30-1000 MHZ RECEIVER

R-484/APR-14 AIRBORNE PANORAMIC SEARCH RECEIVER covers 30-1000 MHz AM-FM in bands 30-210, 210-400 and 400-1000 MHz; has 3" dia CRT for panoramic display of these signals. RF bandpass 6 MHz @ 3 db points. Sensitivity: 11 uv max (30-100 MHz), 13 uv (100-300), 16 uv (300-1000). Spurious response 45 db down; image reject 60 db down. IF attenuator 0-74 db in 6 db steps. CRT calibration +3 MHz center freq; video response +1 db, 200 Hz-2 MHz. 600 ohms audio; A6/ 7-, 9-pin mini and octal tubes plus 3JP1, 5F4, and 5678. Req 115 VAC 380-1000 Hz and 24 VDC 20 W. 8x15.5x20, 90 lbs. Used-reparable $250; MANUAL repro $15.

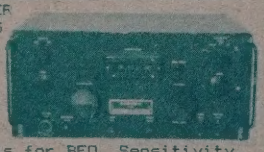
2-32 MHZ SSB RECEIVER

AN/FRR-59A TRIPLE CONVERSION SSB RECEIVER WITH FULL CARRIER SUPPRESSION FROM 2 TO 32 MHZ IN FOUR BANDS: (2-4) (4-8), (8-16), AND (16-32) MHZ. RECEIVES LSB, USB, AM, CW, AND MCW SIGNALS; LSB AND USB RECEPTION POSSIBLE SIMULTANEOUSLY OR SEPARATELY. INCREMENTAL OR CONTINUOUS DIGITAL TUNING IN 0.5 KHZ STEPS. INTERMEDIATE FREQUENCIES (IF): 1625-1725 KHZ, 220 KHZ, AND 80 KHZ. BUILT-IN 1 MHZ CRYSTAL CALIBRATOR. AF LINE OUTPUT: 60 MW INTO 600 OHMS (MIN.); PHONE OUTPUT: 15 MW INTO 600 OHMS (MAX.). RECOMMENDED ANTENNA TERMINAL IMPEDANCE: 50 OHMS. USES 7- AND 9-PIN 6.3 V. glass tubes. Requires 105-125 VAC 50/60 Hz; 25½x22x24, 300 lbs sh. Connectors to make interconnect cables and partial repro of manual included. Used-not checked, $250.00

100 WATT TRANSMATCH

COLLINS 100 WATT TRANSMATCH ASSEMBLY with Johnson 229-201 10 uH roller inductor, 600 pf variable capacitor, and two banks of 5-Centralab 850 100 pf HV capacitors. Inductor has vernier dial; also Hi-Lo antenna inpedance switch and 0-500-1K pf loading capacitor switch for adding parallel capacitance. Two "N" connections on rear; 5.3x6.3x7.5, 7 lbs. #XM-CU737, used, $59.50

R-648/ARR-41 RECEIVER



R-648/ARR-41 RECEIVER 190-550 KHz and 2-25 MHz AM-CW in five bands. Mechanical digital-type tuning in 1 KHz steps. 500 KHz final IF; mechanical filters 1.4 abd 6.0 KHz. Controls for BFO, Sensitivity, Broad-Sharp Voice or CW, and Dial Lock. With tubes 2/5726, 7/5Z49, 2/5750, 2/5814, 5654, 5686, 6AU6, and 0A2. Requires 24 VDC 4 amps input fet dynamotor. 7.5x16x13.3, 35 lbs sh. Used, reparable, $145.00; Checked, $220.00 MANUAL, partial repro, $15. Schematic, $2.50 Power input connector, $3.00 w/set purchase.

30-300 MHZ RECEIVER

R-1420/URR (CEI 905A) UHF RECEIVER, covers 30 to 300 Mhz AM, FM, CW in bands 30-90 and 60-300 Mhz; bandwidth selective 20 or 300 Khz. IF 21.4 Mhz; IF reject @ 30 Mhz is 54 db, above 50 Mhz is 80 db. Sensitivity: 1 uv/4 uv (AM) and 2 uv/6 uv (FM) for bandwidths 20 Khz/300 Khz @ modulated 1 Khz. Video output 5 vrms across 10K ohm load. Meters for Tuning and Signal, separate band tuning knobs and dials, BFO, RF/IF Gain, Audio Gain, Video Gain, Cor Sens, 600 ohm audio out. Partially transistorized; has 2/6CW4, 8058, 7587 nuvistor tubes. Requires 115/230 VAC 50-400 Hz; partial repro manual from microfiche included. 3½x19x15, 25 lbs sh. Used-operational/not to specs $495

R-1538/GLQ-3 RECEIVER, same as R-220/URR except has 115 VAC 400 Hz modular power supply; covers 20-237 Mhz AM, FM, CW in seven continuously tunable bands. 455 Khz IF; IF selectivity 10-50-200 Khz. Calibration points every 5 Mhz. Antenna input impedance 95 ohms; no covers. 10½x19x14¾, 100 lbs sh. Used, $325.00

COUNTERMEASURES

R-1125/R-1230 COUNTERMEASURES RECEIVER for 2-32 MHz in bands 2-4, 4-8, 8-16, 16-32 MHz. Designed for direction finding purposes and features frequency stability of 3 parts/10^6 ±50 Hz. Sensitivity 3.5 uv max input for 10 db signal + noise:noise. First IF 1625-1725 KHz, 2nd 220 KHz, and 3rd 65 KHz. Separate Megacycle and Kilocycle 3-digit mechanical tuning counters in 100 KHz increments plus VFO for continuous tune. Meters for Signal Strength and 100 KHz Tune and controls for AGC, Output Level, and Hi-Lo DF. Unit has 65 KHz output with 60 KHz bandwidth only; does not have onboard detector or audio amplifier. External 100 KHz reference signal required for tuning control. With tubes 6/5654, 5670, 3/5749, 4/5750, 6005, 13/7586 nuvistors, and 13 semiconductors. Requires 175 VDC, 5 V (lights), 6.3 V (fil.), 18 V (reg-circuit), and 115 V (100 KHz) osc) originally supplied by 0-928/FLR oscillator power supply (not available). 6.2x19x24.5, 70 lbs. Used-reparable w/repro book, $115.00

BC-AS-229 RECEIVER, 201 to 398 Khz and 2500 to 7850 Khz using plug-in coil sets. Uses tubes 37, 38, & 4/39's. Requires 230 VDC 80 ma and 12 V. 8x7x16, 15 lbs sh wt. Used, less tubes & coils $9. With tubes/no coils, $16.95 PLUG $2. TUNING KNOB, $2. MANUAL, partial repro, $8.50

COLLINS 180L-3

COLLINS 180L-3 AUTOMATIC ANTENNA COUPLER, usable with transceivers in the 2-25 Mhz range, 50-180 watts. Automatically resonates an antenna to a transceiver's frequency and couples the RF signal between the transceiver and antenna. Also transfers antenna to receiver or receiver section after the transmitter is unkeyed. Coupler has 7-970 pf 3 KV vacuum variable capacitor and variable ribbon 32 uHY inductor; also smaller roller inductor and SWR meter circuit. Requires 28 V-DC 3 amps, 250 or 400 VDC 35 ma, and 115 VAC 400 Hz 20 VA. 10½x7½x11½, 24 lbs sh wt. Used, $109.50; Manual, partial repro, $10.

RT-311 TRANSCEIVER

RT-311/ARC-38 AM TRANSCEIVER, 2.0 to 25 Mhz from 20 preset channels. Frequency interval: 500 Hz (2.0-7.25 Mhz) and 1000 Hz (7.25-25.0 Mhz). Has autotune from channel to channel. Minimum peak output 100 watts (2-14.25 Mhz), 90 watts (14.25-25 Mhz). Antenna tune power: 50 watts. 40 db carrier suppression. Receives AM or CW; sensitivity 5 uv for 6 db signal (phone). Selectivity: 7.5 Khz min @ 6 db, 20 Khz max @ 60 db or 1.8 Khz min @ 6 db, 5 Khz max @ 60 db when in CW sharp position. Unit has VFO and 25 tubes including three 6159's in power amp. Requires 28 VDC, 600 VDC, 250 VDC, -50 VDC, -65 VDC and 6.3 VAC. Also 115 VAC 400 Hz for selsyn on PA inductor. 15½x8x23⅝, 65 lbs sh. Used, not checked, $85.00 MANUAL, partial repro, $15. w/set purchase.

COLLINS 618S-1 TRANSCEIVER, similar to RT-311/ARC-38 but without VFO. Crystal-controlled AM receiver, $54.50. Schematic, $3.00

618S-1/MC TRANSCEIVER, modified for SSB by RCA, xtal-controlled, $99.95. Schematic, $8.

RT-594/ARC-38A SINGLE SIDEBAND TRANSCEIVER, similar to RT-311/ARC-38 except has SSB capabilities. Used, not checked. WRITE

RT-311/ARC-38 or RT-594/ARC-38A replacement modules removed from sets. Write your needs.

C-1398/ARC-38 CONTROL BOX for control and frequency selection of ARC-38. Twenty preset channels or manual in 500 Hz steps. With code book. Most functions operable with ARC-38A SSB set except for function switch which would have to be disabled and provision for side band reception added. 7¼x5⅝x6, 14 lbs. Used, $14.95 ; Schematic, $2 if bought w/Box.

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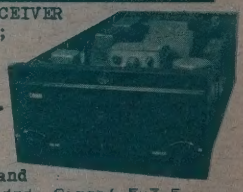
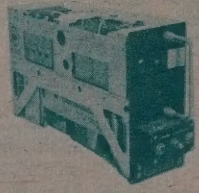
C-3428/ARC-38A CONTROL BOX, same as C-1398 except has SSB function switch for use with RT-594/ARC-38; used, $19.95. Schematic, $2.

AIRCRAFT TRANSCEIVER

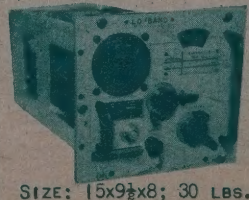


RT-524M AIRBORNE TRANSCEIVER mfg. by Aircraft Radio; covers 136.00 to 149.95 Mhz AM in 50 Khz crystal-controlled steps. 15 watts output. Has volume and squelch controls. Requires 24 VDC 6 amps. With tubes 8156, 2/8102, 6/6CW4, and 2/7587. Schematic included. Size: 6.5x3.5x14, 10 lbs sh. Used, no cover, ~~$50.00~~ $40. MANUAL for RT524M, partial repro, $10.00

COLLINS VHF RECEIVER



COLLINS 51X2-B VHF RECEIVER, 108 to 135.95 MHz AM with possible 880 channels in 50 KHz steps. Compact aircraft set has selectivity of 40 KHz @ 6 db and 3 uv sensitivity for 6 db S+N:N ratio. Also 500 ohm phone jack, squelch, freq indicator, 516B-3 24 VDC solid-state power supply. Channel selection originally performed by 614U remote control which we do not stock. Tubes 6/5654, 3/5670; some transistors. 7.8x3.8x13.5, 12 lbs. Used w/schematic, $39.95



AM-1955/GRC AMPLIFIER CONVERTER USED WITH R-1148/GRC-55 RECEIVER FOR 600-1000 MHZ BAND. 17 MHZ IF. HAS 115 V 60 HZ MOTOR AS PART OF AFC SYSTEM. WITH TUBES 2C40A, 2/5842, 5654, 1N21B, 1N21WE. 150 VDC AND 6.3 VAC REQUIRED. SIZE: 15x9½x8; 30 LBS. SH. USED, ~~$50.00~~ $38.

CANADIAN REMOTE STATION

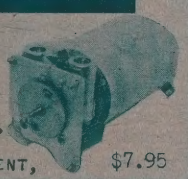
CANADIAN CHANNEL CONTROL BOX, originally used as a four channel remote unit for a transmitter; looks like it might be adaptable as part of an intercom system. Has push-to-talk handset, 3½" 600 ohm PM speaker, audio transformers 600 ohm to 8 ohm and 50 ohm to 600 ohm CT, volume control, channel selector (2-deck, 6-pole 4-position each), phone and key jacks, two pilot lights, and other parts. Heavy aluminum cast case. 15¾x13¾x6¾, 34 lbs. #CAN-4C-RC unused $22.95

TCS SPEAKER-CONTROL UNIT, has 5" dia permanent magnet 6 ohm speaker, 500 to 6 ohm audio transformer, volume control, headphone and mic jacks, and three toggle switches. 5¼x7¼x3⅜, 8 lbs. #TCS-23270, $12.95

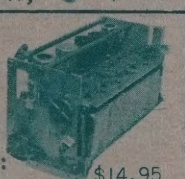
TRANSISTORIZED GUARD RECEIVER f/ modified RT-178/ARC-27; one channel in 238-248 Mhz range. IF's 25.1/3.45 Mhz; has detector, noise limiter, AVC, 4/2N1745 transistors, and 25.1 Mhz filter. 8x4½x4, 6 lbs sh. #5821-953-9695 used $12.95

AM-777 AMPLIFIER DETECTOR, p/o RT-128A/ARC-21 2-24 Mhz transceiver; IF's 1800/300 Khz. Slug tuned; w/tubes 4/5636, 3/5896 3/5899, 3/6021, 5840, 5902, and 5719. Schematic included. 13¼x2x3½, 5 lbs. Used, $10.00

VFO - EXCITER - MOD



VFO-MASTER OSCILLATOR FROM THE T-195 TRANSMITTER; GENERATES FREQUENCY OF 1.5 TO 3 MHZ. HAS 5749 OSCILLATOR TUBE AND 5749 BUFFER-AMP TUBE. WITH ¼x3/16" DIA. SHAFT. 2½x3½x7, WT: 5 LBS. VFO/T-195, REMOVED F/EQUIPMENT, $7.95



EXCITER STAGE FROM T-195, USED TO AMPLIFY VFO OUTPUT AND SUPPLY DESIRED TRANSMITTING FREQUENCY TO POWER AMP. SLUG TUNED IN RANGES (1.5-3), (3-6), (6-12), AND (12-20) MHZ. WITH TUBES 6AU6, 2/6AK6, AND 5763. SIZE: 4½x3⅜x8, 12 LBS. EXC/T-195, $14.95

MODULATOR F/T-195, DESIGNED TO PROVIDE PROPER AUDIO POWER TO MODULATE POWER AMP AND SUPPLY SIDETONE. 300 HZ AND 3500 HZ BANDPASS. W/TUBES 5726, 2/12AT7, 5814. LESS 4X150 TUBES AND SOCKETS. 8½x6x4½, 6 LBS. $10.95

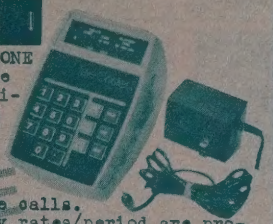
TRANSISTOR RADIOSONDE

TRANSISTORIZED RADIOSONDE WITH CLOCKWORK TIMING MECHANISM (NO-KEY); USED IN METEOROLOGICAL OBSERVATION OR SIMILAR APPLICATIONS REQUIRING AN EXTREMELY LIGHT-WEIGHT TRANSMITTER. UTILIZES A 2-TRANSISTOR MODULATOR AND A 2-TRANSISTOR TRANSMITTER CIRCUIT. TRANSMITTER HAS A 7533 INTEGRAL CAVITY TUBE WHICH FUNCTIONS AS THE TUNED CIRCUIT FOR THE OUTPUT: 1660-1700 MHZ, 575 MW (NO FURTHER DATA). WITH HUMIDITY ELEMENT. TRANSMITTER SIZE: 2½" DIA. x 6"; OVERALL SIZE: 7½x4x5½. SHPG. WT: 4 LBS. FRIEZ #3002, UNUSED, $9.95

AN/AMT-4A RADIOSONDE, consist of T-304A xmitter and MD-147C modulator; unit is similar to Friez 3002 except uses tubes 5794 and 5875 and operates at 1680 Mhz. Requires 1.5, 6, & 15 VDC. 2 lbs sh wt. #T-304A transmitter only, $4.95; 2/$8. MD-147C modulator only less humidity and pressure elements, $3.00; 2/$5.

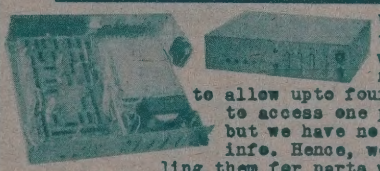
T-69F/AMT-2 RADIOSONDE XMITTER only, 390-410 Mhz; 5703, 5910 tubes--$2. BB208 battery, $2.

TELE COSTER I



TELE COSTER I TELEPHONE METER, cost-effective device for the individual or business who wants to keep "tabs" on the length and costs of long-distance and, perhaps soon, local telephone calls. Initial and secondary rates/period are programmable using the numeric plus 6-function keyboard. LED display shows cost/period plus elapsed time hr-min-sec. Also display flashes 15 sec before rate change and has X60 speed-up time so maximum acceptable charges could be determined before the call. In sturdy, handsome beige plastic case. Requires 115 VAC 60 Hz; 2 lbs. NEW w/info $8.

WHAT-CHA-MA-CALL-IT



We were told these were originally used to allow upto four computers to access one peripheral, but we have no further info. Hence, we are selling them for parts which are RS232-type connectors 4 ea DB25S and 1/DB25P, Triad 26.8 VCT 1.7 amp transformer, 4½x5x1¼ heatsink, two circuit cards, 8' 3-cond line cord, and 3x12x10½ enclosure. PC cards have 4/7400, 7401, 3/7404, 5/7420, 7430, 7473, 7476, 7493, 5/7490, 4/7495, 3/74121, 74153, 74156, 74,64, 2/75189, 555, MC1469R, MC1463R, 2N3055, MJ3101; also selectable crystals 8800/2400 Khz and baud rates 300/110. 12 lbs sh. #340-400, used, $12.95

VASCAR II SPEED TRAP

VASCAR II DISTANCE/TIME COMPUTER-INDICATOR originally used by police agencies for clocking speed of vehicles while the police car was in motion or stopped. Speed of unknown vehicle determined by referencing a pre-measured distance or the distance can be set while both vehicles are moving. VASCAR can determine speed of vehicle in front of, behind, in opposite direction of, or across the path of the police car. Displays average speed in tenths of miles per hour upto 199.9 MPH. Computer module consists of four circuit boards with 5 VDC logic and transistors. Operates from 12 VDC 3.4 amps. Includes computer module, control/indicator module with cable and plug, power plug, and manuals. "AS-IS" transducer is now included. 2.5x13.5 x7.3, 18 lbs sh. Used-not calibrated, $60.00

MX-991/U FLASHLIGHT

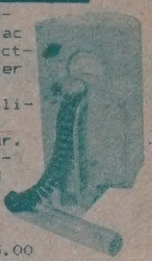
MX-991/U FLASHLIGHT, official rugged, right angle military type made in U.S.A. Operate from two "D" cell batteries (not included). Has clear diffuser, red signal, and white opaque spare lenses which store in handle; metal belt clip. O.D. green plastic. 8.3"Lx2" dia. Unused, $5.75

GRAB BOX ASSORTMENT OF USED AND UNUSED MANUFACTURERS AND GOVERNMENT SURPLUS ELECTRONIC PARTS SUCH AS ASSEMBLIES, MOTORS, COILS, TRANSFORMERS, CHOKES, CIRCUIT BOARDS, CAPACITORS, RESISTORS, AND OTHER USABLE ITEMS. PACKED IN 50 LBS. CARTONS. $7.50 EA. OR TWO CARTONS FOR $13.00.

SHIPPED VIA UPS WITH FREIGHT CHARGES VARYING FROM $5 TO $16 PER CARTON. ALLOW FOR FREIGHT.

GRAB BOX IS GOOD FILLER TO TAKE ADVANTAGE OF MOTOR FREIGHT 150 LBS. MININUM WEIGHT RATES.

PDR-27 RADIAC SET



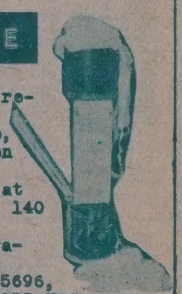
AN/PDR-27 PORTABLE RADIATION DETECTOR consisting of IM-74 radiac meter and DT-53 or similar detector probe with BS-1 Geiger-Mueller tube. Meter indicates amount of beta and gamma radiation in milliroentgens per hour. Range scale 0.5, 5, 50, and 500 M-rtngs/hour. BNC connection for headset monitoring. Requires 135, 22.5, and 1.5 VDC originally supplied by batteries (not available). 8x6 x12.5; 15 lbs sh. Used, $29.95

MANUAL for PDR-27, original, $5.00
SPARE GM TUBES, BS-1 $7.50; BS-2, $6.00
TRANSIT CASE for PDR-27, $6.00
H-43 HEADSET for PDR-27, $5.95

HY-GAIN CB BOARD

HY-GAIN CB TRANSCEIVER BOARD; 3 xtals, IF transformers, RF coils. Similar to Hy-Gain boards converted to 10 meters (73 Mag, 2/84) and 6 M (73, 2/85); no further info. 6.4x6, 2 lbs. Unused AS-IS $3.95 2/$ 7

AMT-6 RADIOSONDE

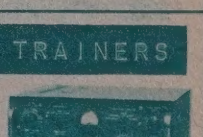


AN/AMT-6C RADIOSONDE WEATHER ANALYSIS SET, designed to be released from high-flying aircraft to transmit temperature, humidity, and pressure data on its descent. Transmits pulse signals in 399-403 Mhz range at repetition rate of 20-550 Hz, 140 watts peak. Includes 18" dia drogue and 48" dia vented parachutes, humidity-temperature-pressure elements, and tubes 5696, 5875, 6026. Requires 1.5, 6, 135 VDC. Looks like an interesting experimenter's item. 5¼" dia X 21½"H, 9 lbs sh. Unused, $14.95

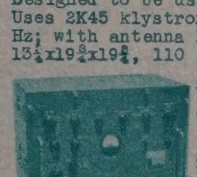
WEBCOR RECORDER

WEBCOR TAPE RECORDER plays and records 3-3/4 or 7-1/2 ips on upto 7" dia reels; has fast forward/rewind, edit lever, footage counter, and 20-0-20 record level meter. Built-in speaker; jacks for mic, bridge and external speaker. Monaural use only; 100-10000 Hz response @ 7-1/2 ips. 500K mic impedance; tubes 12AU7, 12AX7, 6X4, 6BQ5, 6HU6, 7025. Requires 115 VAC 60 Hz. 13.5x12.3x7, 32 lbs. Used-checked for basic playback/record; may need further adjustment. Without mic & reels. #WEB-173B $35. MIC $6. MANUAL-partial $8.50

ANTI-JAMMING TRAINERS



AN/ULT-T2 (15X12) X-BAND INTERFERENCE TRAINER, a low power transmitter in the 8500-9600 Mhz range designed to train radar operators in anti-jamming techniques. Unit can be manually tuned and modulated by a sine or square wave, pulse, noise, or modulation from an external source. Has controls for CW, 5-16 Mhz/sec sweep, 250-500 -1100 Mhz sweep sector, percent modulation, and pulse width 1-5 usec. Frequency modulation 15 Hz-15 Khz variable and fixed 50 or 100 Khz. Audio output impedance 600 ohms. Designed to be used within 50 feet of radar. Uses 2K45 klystron. Requires 115 VAC 50-400 Hz; with antenna horn and transit case. 13¼x19⅝x19¼, 110 lbs sh wt. Used, ~~$90.50~~ $80.



AN/ULT-T4 (15X18) INTERFERENCE TRAINER, similar to ULT-T2 except covers L-Band (1220-1350 Mhz) and uses 2C36 klystron. With antenna horn and transit case. 17⅝x23¼x18¾, 100 lbs sh. Used, ~~$105.00~~ $85.

MANUALS for ULT-T2 or ULT-T4, $10 each w/set.

Control Boxes Filters Indicators Tuning Units Amplifiers

ALARM BELL OPERATES FROM 24 VOLT D.C. SIZE: 4⅜x4⅛x2⅜ WT: 1LB #561-3 NEW $1.95

ANGLE INDICATOR, clamps to 2.5" dia pipe; metal ball in liquid shows 0-60° tilt on 4" curved scale. #AL-060 NEW $4

RF CHASSIS f/ Bendix RA-18C 108-136 Mhz receiver; 7-gang capacitor tunes ant-coil RF grid, RF plate, mixer grid, 1st osc-quadrupler, 1st osc-amp, & cathode follower input. Tubes 2/5654, 5670, 5725; requires 6.3-12.6-108-250 VDC. 3½x3½x10½, 5 lbs. W/ schem. #RF100-RA18 NEW $10.

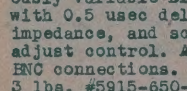
C-87/ART-13 PILOT CONTROL f/ART-13 transceiver; has two 1½" dia ceramic rotary switch (one 1-deck 12-position; other 2-deck 5 pole 3-pos), mic jack, pilot light, and 2 knobs. 3½x6x3, 2 lb. $4.00 C-87 w/o switches, knob $1

SODECO 6-DIGIT COUNTER electrically resettable; 60 impulse/sec count coil and reset coil both 24 V DC 83 ohms. 1-7/8x15/16 x4¼; #RG266, NEW, $8.95

LS-230 INTERCOMMUNICATION STATION CONTROL BX CONTAINS 3 ROTARY 3 POSITION LEVER CONT. SW | LEVER SW. DP DT CENTER OFF, | LEVER SW. SPST | SIDE, OTHERSIDE SPST MOM. & CENTE OFF. 3 LITE IND. PHONE & MIKE JACK & | MIN. TRANSFOR 50 TO 500 OHM. SIZE: 7x5x2½; WT: 3 LBS. PRICE: $5.95

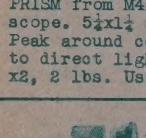
DELAY LINES

DELAY LINE ASSEMBLY with three ESC 71-26-1 continuously variable DL's, each with 0.5 usec delay, 750 impedance, and screwdriver adjust control. Also five BNC connections. 10½x2½x2¼, 3 lbs. #5915-650-3805 $12.95



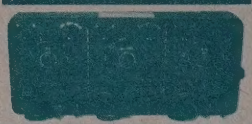
PRISM

PRISM from M4A1 tank periscope. 5½x1½ view area. Peak around corners or use to direct light. O/A 6¼x2½ x2, 2 lbs. Used $2.75 2/$5.



RIGHT ANGLE DRIVE vernier control, 1¾" dia. dial, w/ lock & coupling f/¼" shf 3-hole mtg. #TU-10RA, $2.

ARC-5 BOXES

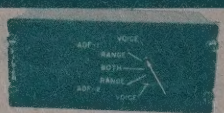


BC-450 RECEIVER CONTROL f/ tuning upto 3 receivers. W/dials 190-550 Khz, 3-6 Mhz, & 6-9.1 Mhz; CW-off -MCW switches, volume controls, and phone jacks. 9½x5½x3, 3 lbs. Unused $8.

BC-496 DUAL RECEIVER CONTROL for SCR-274/ARC-5 receivers; tuning dials for 3-6 and 6-9.1 MC, volume, etc. 2 lbs sh. Unused $7.95

BC-451 TRANSMITTER CONTROL, for one to four Command xmitters; built-in key, mode, mic jack. Unused $5.

AUDIO FILTER



F-90 AUDIO FILTER, reduces interference in CW and audio signals for receivers. Provides sharp null at approx 1020 Hz in voice mode while frequencies near 1020 Hz are passed in "range" mode. Response can be broadened by placing variable resistor from input to output. 5.8x2.5x3.8 3 lbs sh. Used, $3.95 CONNECTOR for F-90, $2.50

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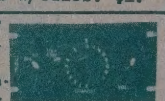
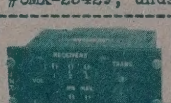
17-DOLLAR DAZE- CONTROL BOX w/DPDT, DPST, & SPST switches and 3 pilot lights w/bulbs. $1.



C-868/ARC-27 CHANNEL SELECTOR for ARC-27 transceiver; selects 18 channels plus guard channel. Also volume, function sw, 2 pilot lights 8x3½x3½, 3 lbs. Used, $9.00 19-pin conn f/C-868, $3.00

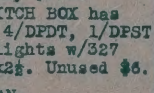
MAR CONTROL BOX, contains 3-SPST switches, two phone & mic jacks (all waterproof) and one dual pot w/dial knob. 5½x5½x3, 3 lbs sh. #CMX-23429, unused, $2.00



SB-329/AR SIGNAL DISTRIBUTION BOX, p/o ARC-44-45 sets; has 4-position selector, vol-control, 2 pilot lights w/327 lamps, and 5 mini-toggle switches (4/SPDT, 1/DPDT). 2½x5½x4½, 4 lbs sh. Unused, $7.95

SA-474/AR SWITCH BOX has mini-toggles 4/DPDT, 1/DPST and 2 pilot lights w/327 lamps. 2½x5½x2½. Unused $6.

SB-328/AR CHANNEL SELECTOR for ARC-45; 12-pos channel select, tone, volume, 2-pilot light w/327 lamps. 2½x5½x4½, 2 lbs. Unused $10. Used $6.



SB-327 CHANNEL SELECTOR for ARC-44 R-T, used $15.

-A REAL BONANZA- HAS MANY ITEMS YOU CAN USE: 1¼" "tune to max" 300 ua meter; 4-band bandswitch & dial assy; 5-position rotary sw with 1-pos mo momentary; spin crank for tuning with 10-turn pot; volume control w/3-gangs; five 327 lamps; Loop switch (L or R momentary); SPST toggle sw; other parts. Originally tuned R101/ARN-6 (p 4). May have broken wafer switch; 6 lbs. #C423/ARN-6 used $4; 2/$7.

ADJUSTO PROFILE TEMPLATE From the good old days. A quality profile gauge with cast frame, 6" brass strips that allow very fine resolution of profile from .007 thick by .07 inch wide. Used in WoodWorking, metal or wherever exact contour shapes are needed. Shpg 3lb Order--Adjusto Template $10

****
*MAKE *
MACY'S
*PHONE *
*PATCH *
****

RM-52 Remote Control used for radio and intercom set. Has transformer, mic & phone jacks. Source for Phone Patch project. 7½x3½x5, 5 lbs. Used, $4.

CRV-23253 TUNING CONTROL, p/o early WW-2 ARB set; four ranges covering 190 Khz-9.1 Mhz. Fits MC-124 spline 2 lbs sh. Unused $6.

TELEPHONE HANDSET HOLDER for older style handsets; metal, vertical mount. 3.5x2.5"; #HND-HDR used $3.

BA-398/ PRC-25 ARCTIC BATTERY PACK, consists of 72/1.5 VDC mercury cells wired to produce 2.5 V 400 ma and 12 to 15 VDC 1.4 A in cloth bag. 1977 date codes; unused but LV output weak. 6 lbs sh. $4.95 ea 2/$8.

* * * * * * * * * * * * * *

NICAD BATTERY, rechargeable 4.8 VDC 500 ma; 1⅝xl-3/8". #4/500DKZ, NEW, $4.

12V 4 AH NICAD

10-quality stainless steel 2.3x2.9 x0.6" 1.2 V cells; charge 400 ma over 15 hours 6 lbs; GE#42B004KA01, $25.

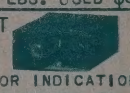
RUBBER SHOCK MOUNTING	4 lbs	#4	$.45
	6 "	#6	.50
	10 "	#10	.60
	12 "	#12	.65
	16 "	#16	.75
	24 "	#24	1.00
	35 "	#35	1.25

OTHER WEIGHTS AVAILABLE.

M-399 ADAPTER

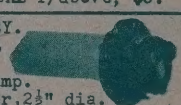
M-399 ALIGNMENT ADAPTER for BC-659 transceiver; allows the changing of crystals as well as the alignment of the set without the use of an external meter. Mounts inside the BC-659. 2 lbs. $5.00 M-394 ADAPTER f/BC-620, $5.

VO-6 OSCILLATOR CRYSTAL CONTROL 4.3 MHz; VARIABLE 0-100 u-V OUTPUT. USED WITH VARIOUS SETS HAVING 4.3 MHz IF. W/1T4 TUBE. REQUIRES 1.5 AND 67.5 VDC. 5x5x3½, 5 LBS. USED $8



I-210 ALIGNMENT INDICATOR USED WITH VO-6. HAS 6E5 EYE TUBE FOR INDICATION. ALSO CHECKS RESISTANCE TO 50K OHMS AND 0-4.5-6-30 V. REQUIRES 4.5 OR 7.5 VDC AND 60, 90, OR 150 VDC. 5½x4½x2; 3 LBS. SH. USED $9

ME-40 MANUAL f/above, $5.



SWITCH ASSY. FUEL LEVEL CONTROL. 24 vdc 3 amp. 7" cylinder, 2½" dia. United Controls N7-1-16 $7.

MALLORY SONALERT

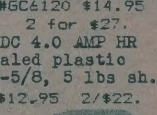
4 to 28 VDC, 2900 Hz cont., 64-78 db. Snap-lock fit into 1.063" dia hole; ⅝xl-5/8 dia. #SNP-428, NEW, $4.95

MALLORY INTRUSION ALARM, hang on door knob and set sensitivity. Sonalert sounds when outside door touched. Will not work on steel doors; 9 VDC requir #DRS-DC, NEW, $7.95

RECHARGEABLE

GLOBE 6 VDC 12 AMP HR rechargable gel-cell; slip terminals, sealed plastic case. 5½x4½x2⅝ 6 lbs sh. NEW #GC6120 $14.95 2 for $27.

ELPOWER 12 VDC 4.0 AMP HR gel cell; sealed plastic case. 5x3⅝x2-5/8, 5 lbs sh. #EP1240 NEW $12.95 2/$22.



GATES LEAD-ACID BATTERY PACK, six 2 VDC 5 amp cells wired to produce 12 VDC 5 A; rechargeable. Each cell 3x1¼ dia, 7 lbs. #0800-0041, $14. 2/$25.00

GATES 12 V 2.5 AH LEAD ACID 8x2½x1⅝. #0810-0016 used $8

NICAD SUB-"C" CELLS, 2.5 V 800 ma per pair; each 1-1/8 xl" dia. #NC-SC-PR $2.50/pr

BB-599 NICAD, 1.2 V 11 AH @ 1 hr rate; 7x2.4x1.1, 3 lbs. Used, $2.25

PROJECT BOX

ALUMINUM PROJECT BOXES bot have 3/8" hole centered in front, snap-on covers, and rubber feet; 1 lb, NEW: #PBX-2346 2.3x4.6x3.8 $3.2 #PBX-1841 1.8x4.1x3.8 $2.5

DISCONNECT KIT

HAR-COR's QUICK DISCONNECT KIT, easy hook-up of accessory power leads; includes mated pair two-conductor connectors & four 3M #558 crimp connectors f/#18-#22 wire. NEW $1.25/kit; 5/$6.00

KEYBOARD

CALCULATOR KEYBOARD, 17 BUSINESS SIZE KEYS. EACH SWITCH REMOVEABLE; CONTACTS AC CESSIBLE. SP4P SLIDE SWITC USED, EXC. NCR#0092, $3.95

16 KEY KEYBOAR BY MICRO SWITC CONTACTS RATED 12v 6MA TO SIN GLE COMMON BUS BUTTONS .5x.5x.2. 0 THRU 9 RESET, DELETE, CARD NO., $ AMT, PROCESS, FCT. SIZE 3x3x1 #16NW3-44 NEW $4.95

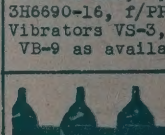
GALENA XTALS for your old crystal radio set cat's whiskers $2.50 e

TUNING METER

for securit door alarms includes 50 ua 1.75" me ter, transistor meter amp, 22.5 V battery, 3 test leads and instructions. Adapt to oth er test uses! 4x2.9x1.8, 2 lbs sh. #TM-LC73 NEW $5.95

VIBRATORS

VIBRATORS removed f/equip. VB-1 & -7: 6 V. for PP-308 PE-97, -117, -237. $3.95 VB-12 (6 V.) or VB-13 (12v for PE-120, $2.95 3H6690-16, f/PP-112, $2.95 Vibrators VS-3, G534, VB-8 VB-9 as available, $2 ea.



BB-51 BAT TERY 6 V. 2.75 hour thru 30Ω lead cell Dry charg 1½x3½x7/8 3 oz. $1.

BB-52, sa as BB-51 except 36 V. 3 A thru 1200 ohms. $1.00 ea. BB-208 BATTERY PACK, contains BB-51, 3/BB-52, $3.

MINIMUM ORDER $5.00

PUSH-TO-TEST

PUSH TO TEST INDICATORS WITH MARKINGS ALSO HAVE CLEAR & AMBER LENSES

KORRY MFG., ALL UNUSED.

KORRY 260 PUSH-TO-TEST INDICATORS, DOUBLE LAMPHOLDER WITH MINIATURE BAYONET BASES. 1⅛"WX⅝"HX2½"D. NEW. CHOOSE FROM THESE LENS INSCRIPTIONS:

PHASE B POWER, 28 VDC. OR 24 VOLTS DC. $1 EA, 3/$2

KORRY 260 indicators with rocket launch-related inscriptions: UNLOCK, TESTING, COMPONENTS TEST POWER ON, HEATER 1-2-3, CENTER, LN OVERFLOW, LN LOWER LEVEL, LN UPPER LEVEL, 100% LIQ OXY, LIQ OXYGEN FINE, FUEL TANK PRESSURIZED, COOLANT FILL, 40 C THERMOSTAT, LOX THROT VALAVE HEATER. Price: 75¢ ea or 4 for $2.

ASSORTMENT OF ROCKET LAUNCH INDICATORS, NO CHOICE, 6/$2

KORRY 136 PUSH-TO-TEST INDICATORS, SINGLE LAMPHOLDER WITH MINIATURE BAYONET BASE ⅝"WX⅝"HX2½"D. INSCRIPTIONS: STANDBY; LOW; MALF. 65¢ 2/$1.

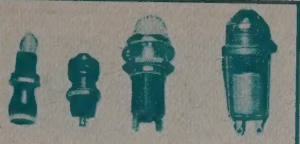
KORRY 103 INDICATOR, PUSH-ON RED PLASTIC CAP; PLASTIC BODY. 5/8" SINGLE HOLE MOUNT. #5167, 50¢ EA. 3/$1.

LAMP HOLDERS FOR 327 LAMPS ⅜" HOLE MTG. FLAT TOP LENSE 3/8 DEEP, WHITE LENS NUMBERED 1 TO 9, YELLOW ("MAX"), AND GREEN. SPECIFY. #6210-617-0934, 39¢ EA. #327 LAMP FOR ABOVE, 39¢

NEON CYLINDRICAL TYPE LITE

ELDEMA V W/RES. 3/8x1¼" #2685 28v .04A 1/4x7/8

OBLONG SLIP IN TYPE NEON 1/2x1-3/8" 125v. #3100 USED ALL ABOVE 3 FOR $1.00



SUB-MINIATURE NEON PILOT LIGHT ASSEMBLY. FLUTED 5/16" DIA. CLEAR JEWEL. BASE IS FEMALE PART FOR A THREE PRONG PLUG WITH 1/16" DIA. HOLES IN ISOSCELES TRI ANGLE PATTERN. MOUNTS IN 3/8" HOLE. 0" TO 3/8" SURFACE CLEARANCE. 1 3/8"LONG. INCLUDES BULB. USED. 110v. PIL007 $.25 5/$1.00

SINGLE TERMINAL AND CONTACT SUB-MINIATURE DIMMER PILOT LIGHT. MECHANICAL DIMMER VARIES SIZE TO COMPLETE DARKNESS. REQUIESS T-1¾ BULB. 5/16" DIA. SMOOTH RED JEWEL. MOUNTS IN 7/16" HOLE. 1 3/8" LONG. LESS BULB. NEW. 6210-643-4087 $.59

PILOT LIGHT WITH SINGLE CONTACT, MINIATURE BAYONET BASE. CLEAR STOVEPIPE, SMOOTH 5/8" DIA. JEWEL. MOUNTS IN 11/16" HOLE. SURFACE CLEARANCE IS 0" TO 3/8 2 1/8" LONG. LESS BULB. USED. PIL008 $.39

Pilot light with double contact candelabra bayonet base. 1" dia red smooth jewel. Mounts in 1" hole with surface clearance of 0" to 1/2"; 2.75" long. Less bulb, #PIL003R $ .59

PILOT LIGHT WITH SINGLE CONTACT, MINIATURE BAYONET BASE. ⅜" DIA. SMOOTH, GREEN JEWEL. MOUNTS IN 5/8" HOLE WITH A SURFACE CLEARANCE OF 0" TO ½". 2 1/16" LONG. LESS BULB, UNUSED. PIL004 .49

PILOT LIGHT JEWELS, ⅜" dia for ⅜" dia threaded assy. Asst colors. Series-F 6/$1

WHITE SWITCHBOARD JEWELS, 3/8" dia. #4C1971, 10/$1.

VERNIER DIAL

VERNIER DIAL removed from BC-191/375 tuning units; 1.75" dia black plastic knob has 2.5" skirt with 180 0-100 scale. Also flex coupling for 1/4" dia shft. 1 lb sh; #TU-VD, $5.95

INDUCTORS

FERRITE POT CORE INDUCTORS, PC mount; 7/8x⅝" dia. NEW. 123-177 mH, #NV243, $1.50 600 mH, #404-3-2, $1.50 TORROIDAL COILS, 5/16xl dia 150 mH, #403-1-1, 85¢ ea.

TELEPHONE PICK UP COIL used in modem data coupler; no specs. 5/8xl⅛ dia #403-4 $1

COMMAND XMITTER ANTENNA COIL for 5.3-9.1 Mhz range; 24 turns wire around 2" dia X 3" ceramic form; No contacts or mount brackets. #6035 $6.

#6035-MB, as above but with mount brackets $7.50

NATIONAL NC-100 ASC CW OSC tuning coil, 456 Khz, $3.

BC-348Q RECEIVER IF COILS
1st IF 9A1952 #147 $3.00
2nd IF 9A1953 #148 3.00

100 W LO-PASS

100 WATT LOW PASS FILTER for commercial transceivers: sharp cut-off approx 40 MHz 5.5x2x1.3 aluminum box with two SO-239. #LPF-40M. $5.95

COLLINS FILTER

#526-8088-00, 21.608 Mhz (5895-980-9828) NEW $20
#526-9369-00, F64-Z7; (5915-724-6633) NEW $22

COLLINS CHANNEL MODEM CIRCUIT BOARDS each with two 6"xl" dia mechanical filters plus other parts such as transformers, chokes, pots, etc. 9½x6, 2 lb-Used: #522-5247 w/two F64-Z8A (526-5249) filters, $6.95
#522-5243 w/two F100-Z8B (526-9463) filters, $7.50

FLUTED KNOBS

TCS SPIN KNOB & CRANK, 1-5/8" dia fluted knob w/ 7/8" crank extension; ⅝" high handle. $1.50

LUXITROL KNOB, 2-3/8" dia. w/pointer; fits 3/8" dia. shaft, $1.50

GE #7466834P1 SPIN KNOB & CRANK 2" dia x 1/2"h ribbed plastic knob w/ 5/8"h metal crank; for 1/4" shft. $2.50

ALCO KNOBS

ALCO KNOBS, high quality, modern fluted knobs with brushed aluminum inset; fit 1/4" dia shaft. NEW:
#AL-KN20, 2"di x0.8"h $1.50
#AL-KN10, 1"dia x0.5"h $.50
#AL-KN8P, 0.8" dia x0.5" h; pointer, f/slot shft $.45
#AL-KN6, 0.6" dia x 0.4"h for 3/16" shaft, 4/$1.00

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ALCO KNOB KIT consists of 2 ea of above; #AL-KNKT $3.75

AUDIO KNOB SET five aluminum 0.7" dia x0.8"h ribbed knobs f/ 1/4" slot shaft #KT-7100, NEW, $2.50/set

DUAL CONTROL KNOB SET, lower 0.9" dia x 0.7"h section takes 1/4" dia shaft; upper 0.7"dia x 0.7"h knob takes 3/16" shaft. #DC-KN-ST, NEW $1.25

#KN757, Single knob matches DC-KN-ST; 0.7" dia x 3/4"h for 1/4 shaft, used, 2/$1.

SPIN KNOBS

2" DIA. METAL FLUTED SPIN KNOB FOR 5/32" SHAFT. KNBN009 $.79

2¼" DIA. SPIN KNOB. METAL. TAKES 3/16" SHAFT. #8089 NEW $2.00

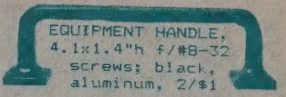
MAKE ANY FLAT KNOB A SPIN 1⅛" ADAPTER WITH 3 HOLES, TO FASTEN TO YOUR KNOB, WITH SPIN GRIPPER #2Z5816-3 $1.00

1-5/8" DIA. METAL SPIN KNOB F/⅜" SHAFT. URC#KN02, $1.50

1½" DIA. FLUTED KNOB W/1⅜" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KN04, $.50

1-5/8" DIA. FLUTED KNOB W/ 2" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KN03, $.75

Brown 1" dia x ⅜" high knob for ¼" shft. #KNB025, 2/25¢



EQUIPMENT HANDLE, 4.1x1.4"h f/#8-32 screws; black, aluminum, 2/$1

MATCHED KNOBS, rounded edge w/4 sets of 4 hash ridges. Looks like old Hammarlund. #E5168 2½" $3 #E5570 1⅛" $2

HALLICRAFTERS with big 1⅛" dia; arrow & grip bar. #H81014 new $1.50

BAR TYPE KNOBS

BAR TYPE BAKELITE KNOB FOR ¼" SHAFT. 1⅜"x⅜"x5/8". SET SCREW TYPE. KNBN012 $.25

BAR TYPE BAKELITE KNOB FOR ¼" SHAFT WHICH MUST BE TAPED FOR SET SCREW. 1⅜"x⅜"x5/8". KNBN013 $.25

RECTANGULAR BAR TYPE BAKELITE KNOB 1⅜"x⅜"x5/8". WITH BRASS INSERT FOR ¼2 SHAFT. SET SCREW TYPE. KNBN014 $.25

Pointer knob with brass insert for ¼" shaft; 1⅜xlx½. #KNBNQ26 25¢ ea

Bartype bakelite knob with pointer. For 1/8" shaft; vertical set screw. 1⅜"x5/8"x⅜". KNBN016 4/$1.00

Rounded bar style knob, 1-1/8" long x ¾" across x 11/16 H. Brass insert f/ ¼" dia sh. #KNART13 3/$1.

MODERN GREY KNOB w/fine-ribbed side. 1½" dia X 9/16"H. F/¼" dia sh. #7577 NEW $1.

1-5/8" dia plastic knob with 2⅛" dia aluminum skirt calibrated 0 to 10. Brass insert for ¼" dia shaft. #9414 NEW $.50 ea

1" dia plastic knob with 1⅛" dia skirt calibrated alphabetically A-B-,,.Y-Z. Aluminum skirt; f/¼" shaft. #5312 NEW $.50 ea

3/4" RIBBED KNOB 7/8" DEEP 1" SKIRT F/¼" SHAFT DULL BLK.KNB7820 35¢

5/8"x3/4" SAME AS ABOVE BRIGHT BLK.KNB1261 20¢

1" dia. x 11/16" high knob, Ribbed style; Insert re-sessed ¼" from base for flush fit. KNB2279, 30¢ ea.

1¼" KNOB MARKED "INCREASED OUTPUT". ¼" HOLE WITH SET SCREW. ½" THICK, METAL. KNBN023 $.25

2" TUNING KNOB black w/chrome-finish trim. Metal insert f/¼" d shft. #ROB-B/C $1.25

MINIATURE LAMPS

STK #	TYPE	V.	A.	BASE	BULB	EA	Per 10
#14 flashlight		2.47	.3	cand sc	G-3½	.30	$2.00
#382		14	.08	min flanged	T-1¾	.35	2.50
#327 grain of wheat		28 v	0.04 a		T-1¾	.39	3.00
#511		2	.25	min sc	G-6	.20	1.00
1004 auto type		12	.94	DC bay	B-6	.25	1.50
NE-48/991 neon		115	.25	DC bay	T-4½	1.50	12.00
NE-51 neon		115	.25	min bay	T-3¼	.40	3.00
2Z5882		18	.11	can sc	T-3¼	.20	1.00
#24-68M		24	.68	DC bay	B-6	.25	1.50

SEALED BEAM

MARINE TYPE 600 WATT 28 VOLT GE Q600 PAR 56/1 SCREW TERMINALS PRICE: $6.00 EA. WRITE FOR 100 LOT PRICE.

GRIMES LAMP ASSY. #4725-24 WITH 327 GRAIN/WHEAT BULB. 6220-333-5827 59¢ EA. 2 FOR $1

LINE FILTERS

RF LINE FILTERS, unused.

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SIEMANS #B84104K, 3 amp 115/230 VAC 60 Hz; plug & lead connect. 1½x2⅛x2, 1 lb. $1.

#410-3, 2x5 amps 125/250 VAC 50-400 Hz; four solder terminals. 2x2⅛xl¼, 1 lb. $1.25 ea.

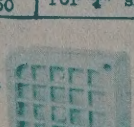
#VSM-202A, 2 x 10 amp 250 VAC 50/60 Hz, wire leads; 2x3x3, 1 lb. "Spike" protector! $3.25

Sprague #JN17-2028A, 300 amps 100 VDC; lug terminals, 7½x3 mtg plate. 7 lbs. $12.95

#537-6615, 55 amps 30 VDC; two stud terminals. 2⅝x5x2, 3 lbs sh wt. $2.95

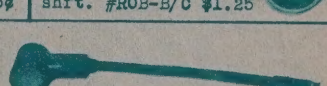
HORN

FARADAY 48 VDC 100 ma HORN, made for Bell Telephone; makes loud, penetrating sound w/screwdriver volume adjust. Steel construction; recess mount. Front size 4x4x1.25; 1.25" panel depth. 3 lbs sh. #KS-12037L2, NEW, $5.95



SPRAGUE JN17-495082 4x30 AMP 277/480 VAC, 4x4x4.75 plus lug length; 5 lbs sh, $12.95

GENISCO GF-1901-75D 75 AMP 250 VAC/600 VDC FILTER, knock-outs for hook-up; long style 21⅝x4x4, 23 lbs. NEW $14.



GOOSENECK LAMP EXTENSION with mini-bayonet lampholder. 1.1" dia ight angle lens rotates 360 ; 6.5" lg flexible section has 2-contact base. O/a 10.5" lg; #GN-LA-EXT used $3. 2/$5.

ADJUSTABLE ALUMINUM SHOCK-MOUNT WITH FOUR 1⅜-3 LBS. SHOCKMOUNTS. PERFECT FOR SMALL POWER SUPPLY, AMPLIFIER OR OTHER GEAR. FITS 5-1/8"w X 6¼" TO 7⅜" DEEP UNIT; 2" HIGH. SH WT: 3 LBS. #MT-569A/ARA, UNUSED, $2.50

NATIONAL HRO COILS

Individual coils for HRO receiver coil set plug-ins. Unused, $2.50 ea; 4/$8.00

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KHZ

50-100: E112, E115/B143 E114/B144
100-200: S109/B139 E110 B140
175-400: B112 B113
900-2000: B120
2-4 Mhz: B123
4-7 " : B127 B128
7-14 " : B130 B131 B132 E87
14-30 Mhz: E80

BC-610

BC-610 XMITTER PLUG-IN TUNING UNITS, 4 lbs.

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NVL= no variometer
WVL= with variometer

#	MHZ	Price
C-454	1.5-2.0	WVL $6.00
C-388A	3.5-4.5	NVL 5.00
C-389A	4.5-5.7	NVL 4.00
C-447B	8-11.0	WVL 5.00
C-449B	14-18	WVL 6.00

TU-47 (2.0-2.5 MHz) TU-49 (3.2-4) TU-50 (4-5) $7.50
TU-54 (12-18 MHz), $12.00

VACUUM CAPACITORS, Jennings with connectors. Unused:
1.5 pf 15 KV "Y" $3.00

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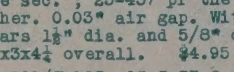
Jennings or equal mfg; used.
12 pf 20 KV "VC" $10.00
50 pf 500 WV $6.00

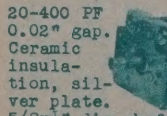
TRAVELING WAVE TUBE

EMI 7640 TWT, similar to Hughes 313H; 2.0-4.0 Ghz, 1 KW output, 30 db. 16⅛x3½ x5; 20 lbs. sh. Sold as an experimenter's item only; not guaranteed. $17.50

ITT D-2013 CW TWT, 5 watts 33 db gain, 8.0-9.6 Ghz; 6.3 v. heater. 12x1⅛" dia. 3 lbs. sh. Unused, $45.00

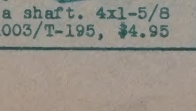


RCA 4012/A1157 TWT, 2.0-4.0 Ghz, 36 db min., 20 MW min. 15⅛"l x 3⅛"h x 1⅛"w. 4 lbs. sh. Unused, $40.00



VARIABLE CAPACITORS, removed f/ T-195/GRC transmitter. #C-222/T-195, 25-485 pf one sec. ; 23-437 pf the other. 0.03" air gap. With gears 1⅛" dia. and 5/8" d. 4⅛x3x4¼ overall. $4.95

#C-221/T-195, 13.5-77.8 pf one section; 17-99.6 pf the other. 0.094" air gap. ¾"x ⅛" dia. shaft. 5¼x1⅛x3¼ overall, 2 lbs sh. $3.95



20-400 PF 0.02" gap. Ceramic insulation, silver plate. 5/8x¼" dia shaft. 4x1-5/8 x1⅛. #C-1003/T-195, $4.95

TCS VARIABLE CAPACITOR, 2 SEC. 10-360 MMF, ONE SEC 10-360 MMF, 3 BAND CALIBRATED DIAL 4" 1.5 TO 12 MHZ SIZE: 7x3½x3½; WT: 10 LBS. #881 $3.95 USED

SINGLE SECTION 11-67 pf .05" spacing. Has three front mount spacers for #6 screws Shaft 3/8x¼" dia; o/a 3¼x 1-7/8x2⅛. #3D9067VEB $3.95

RBF-3-14A164, 10-40mmf gap 0.04". 2kv.3½x2⅝x2 $2.95

HAMMARLUND VAR. CAPACITOR 20-90 pf 0.05" spacing. Silver-plated, 0.04" thick, plates. Right angle worm and split gear drive. Shaft ⅛" x ¼" dia. 4⅛x3⅛x3⅜ #446-6571 $9.95

5-GANG 402 PF

5-GANG 13-402 pf/section w/removable gearhead for spline tuning or ¼" dia shaft. 10x4x2⅜, 2 lbs sh. #C111/ARN-6, $5.95; 2/$10.

#3D9025V-99 TRIMMER, 3.5 to 25 pf; long 1.5"x0.25" dia shaft; o/a 2.3x1x1.3, $1.25

THREE GANG, 15-85 pf/gang 0.03" gap; 3¼x1-5/8x4⅜. #074-049 unused $4.95

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3-GANG, 15-160 pf/section, 0.02 air gap; ¼" dia shaft 1¼x4⅛x1⅛. #3TH160, $3.95

BC-624 RECEIVER R.F. TUNER ASSY 100 - 156 MHZ A.M. W/VARIABLE CAP., COILS, TUBE SOCKETS. OSC. SEC. P/O SCR-522 5x5x5; WT: 7LBS 2ZK1150 USED $3.95/N $5.95

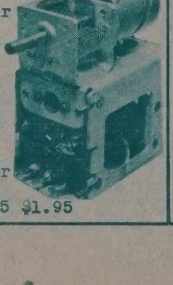
3-GANG, 2/25-500 pf & 20-180 pf; 5/8x¼" dia shaft. 4½x1⅝x1⅛; #ASP4741, $4.95

3-GANG, 2 sec 20-365 pf, 1-sec 17-175pf; ⅜x¼" dia shft. 3½x1⅝x1⅛; #5740, $3.

2-GANG 6-16 pf/gang 0.05" gap. Silver-plated with brass gears; p/o TS-497 sig generator. 7/8x5/16" dia shaft; o/a 4x2-3/8x3. #3330-313, unused, $5.95

TUNING CAPACITOR F/RT-176/ PRC-10, 38 TO 54.9 MHZ; 5-GANG, 5-33 PF/GANG. WITH 1¼" AND 5/8" DIA. GEARS; 3/16" DIA SHFT. 1⅛x1-5/8x4, USED, $4.95

BROADBAND TUNER 14-50 MHz 10-150mmf var capacitor mechanically coupled to iron slug in a coil which moves as the capacitor is rotated. various other components. 3½x2x3 #RT-45 $1.95



TRANS. CAPS.

DUAL 4-30 MMF 1000 VDC 1⅜x 1½x2, SHAFT ¼x⅝ P/O BC-640 CARDWELL 430/1M REM $2.95

DUAL 5-25 MMF 2000 VDC 1⅜x 1½x4¼ SHAFT ¼x⅝ P/O BC-640 CARDWELL 525/2M REM $3.95

DUAL 4-20 MMF 2000 VDC 1⅜x 1½x3 SHAFT ¼x⅝ P/O BC-640 CARDWELL 420/2M REM $3.95

Single 12-65 pf, 0.06" gap; 3/8x¼" dia shaft, o/a 3¼x 1½x2⅜. #CARD-427B NEW $5.

BC-624/522 RECEIVER, 3 GANG 6-36 MMF EACH SECTION WITH SLUG TUNED TRIM. SHAFT 5/16 STK#3D9036V SIZE: 4⅛x2x3½; 1 LB. $1.50

Single 7-26.3 pf, 0.06" air gap; shaft ¼x¼ dia, o/a 2x2x1⅛. #C227/T235, $2.95

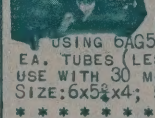
DUAL 6-22 MMF 1500 VDC 1x1¼ x2⅜ SHAFT 3/16x½ TELERADIO 622/15M NEW $1.95

TRIMMER 9-143 pf silver-plated; standard/SCD adjust. ¼x½ shaft; o/a 2¼x1 x1¼. #C228/T235, $2.50

#P-7761569, 14-62 pf, 1x¼" dia shft. 2¼x2⅝x4⅛, $3.95
#T-7660443-8, 8-26 pf, 5/8 x¼" dia shaft. Overall 1½x2⅝x3, 2 lbs. $3.95

1-GANG 15-160 pf, 0.03" gap; shaft 1½x¼ dia, o/a 1¼x2¼x1⅛. #1TH160, $2.50

JOHNSON "M" SERIES, 3/16" dia slotted shafts; o/a 1-5/8x⅝x5/8. Used:
#160-110/20M11, 2.7-19.6 pf; 21 plates, $1.10
#160-130/30M8, 3 to 32 pf; 28 plates, $1.25



PRE-SELECTOR UNIT ASST PART OF R-48 REC. 230-250 MHZ. CONSISTS OF RF, MIXER & OSCIL. USING 6AG5-2 EA. 9002-1 EA. TUBES (LESS TUBES.) FOR USE WITH 30 MC I.F. SIZE: 6x5⅛x4; 5 LBS. USED $5

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GLASS PISTON CAPACITORS
#VCJ-770, 15 pf 5/8x¼ $1.

VC-30G, 30 pf 2x¼ $1.00

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AIR CAPACITORS, 0.02" spacing; shft ⅜x¼ d, 3x1⅛x1¼
#21105-14 8-20 pf $1.50
#21105-15 8-35 pf $1.65

TU-53 OSCILLATOR PLUG-IN ASSY. FOR BC-610 TRANSMITTER FREQ. RANGE 8-12 MHZ. CONTAINS VAR. CAPACITORS WITH SHAFTS 140 MMFD, 190 MMFD. 2/CERAMIC CAP. 1/MICA CAP. 4/R.F. COILS, 2/RES. 1/DPDT switch, dial, and two knobs Rear plugs are broken. 2x8⅛ x4¼, 4 lbs sh. Used, $3.95

AIR VARIABLE CAPACITORS from BC-191 tuning units; 0.06" air gap:
#T7660443-1 19-116 pf; 3.8x3 x1.8, 1/4" dia shaft, $4.95
#P7761569-3 11-66 pf 3.3x2.8 x2.3, 1/4" dia shaft, $3.95
#P7761569-5 15-77 pf 3.3x2.8 x2.3, 1/4" dia shaft, $4.50

RECEIVING TYPE CAPACITORS FOR AM-FM-AUDIO-OSCILLATOR USE WITH SHAFTS.

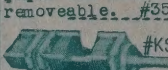
#48842 DUAL 12-90 MMF & 15-140 MMF SIZE 1x1x⅝ $1.00

#66972 DUAL 9-50 MMF & 1-100 MMF, SIZE 1x1x⅝ $1.00

#330V020-H02 DUAL 10-90 & 14-140 MMF 1⅛x1⅛x1 $1.25

#074-050J-2, 8-20 pf, ⅝x½ shaft. $1.25

Dual 5-15mmf, ceramic, w/friction gear to hold setting. 0.04"spacing. 2⅛x1⅛x1-7/8 in ¼x¼in dia shaft. coil& gear removeable. #358-3164 $1.95



#KS21146L1, 3-GANG, 7-60 PF/SEC. 0.03" GAP. O/A 5¼x1⅝x1⅝, $3.95

2.3 to 14 pf, ⅛x3/16" dia shaft. #228-6085, $1.25

3D9200V-19, 4-gang 14-200 pf/gang; ¼x¼ dia shaft, o/a 6x2½x3¼. p/o R174 used $5.

SINGLE 10-100 pf, 0.02" gap; ⅜x½" dia shaft, o/a 2¼x1¼x1⅝. #3D9100V $1.95

AIR PADDER CAP

ALL PADDER CAPS. REQUIRE SCREWDRIVER ADJUST.

351-1054	2-8 PF	49¢
D3535	2-20 PF	49¢
CTN48785	5-17 pf	49¢
657-J3	8-55 pf	79¢
SBL72265-2	8-32 pf	59¢
3D9011V-7	5-14 pf silver-plated Hammarlund,	89¢

#CT1C100, 10-120 pf; screwdriver adj; 2x1¼x1, $1.25

#C663/R174, 2-11 pf screwdriver adj; ⅝x½x¼, $.50

#3D9006V-7 DIFFERENTIAL, 3-6 PF, .045" GAP; 1⅛x1x2, 1⅛x¼" D. SHAFT. NEW, $1.95

JOHNSON #160-102 TRIMMER, 1.5-5.1 pf; 3/16" shft $.75

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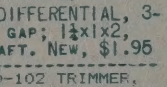
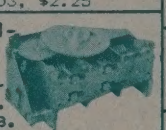


TWO COUPLED CAPACITORS, each 4.3-82 pf; one has 5/16"x1/4" dia shaft. Each 1.1x1.3x1; mounted 2.3" plexiglass. #5910-546-9203, $2.25



COMMAND RECEIVER VARIABLE CAPACITORS, 3-GANG, TRIMMERS & GEARS. 2⅛x3x4⅜; 3 LB.

#6558, 62 PF, 6-9 MHZ, $4.

TRANSMATCH ASSY ROTARY INDUCTOR, 16 TURNS, .5-4.15 MICRO-HY. W/VARIABLE CAP. 5-50 MMF. 2000v RE-MOVED FROM EQUIP. DESIGN FOR 14-50 MHZ. SIZE: 2⅛x5x5 4 LBS. #B8M502 $6.95

PRECISION TANK TUNE CAPACITOR 25-220 pf w/right angle worm gear reduction tuning. 0.03" spacing; 1"x¾"dia shft, o/a 4⅜x2⅝x3¼. Remove f/equip. #C9/SG-15, $8.00

1820-2520 MHZ

PRESELECTOR, two separate cavities having 21 Mhz band width and 3 db insert loss @ 1715 Mhz. 1N21B crystal mixer 120 Mhz output from 1820-2520 Mhz injection. "C" and "BNC" connect. 9¼x x3⅜x3½ 4 lb #PRE/TRC29 $20.

#2SLT/TRC29 2-SLUG TUNER, provides isolation, coupling, and impedance matching between 50 ohm klystron output and P-A input. Two slug adjust. 10x1⅛x1⅝ $8. UG-573 C-conn. Used, $1.25

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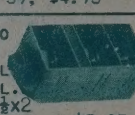
#3CPR/TRC29 TRIPLE COUPLER which fed P-A. 36 db and 65 db RF outputs; DC output for P-A meter. 4 "C" connections and one 1N21 connector. 5⅜x2⅜x1½ $9.95

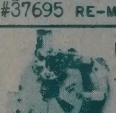
AM & FM TUNERS

AM FREQUENCY 550 - 1600 K
FM FREQUENCY 88 - 108 M
UNITS HAVE NOT BEEN USED

AM-FM TUNER w/ 12DT8 tube and dial; 3x2x3, 2 lbs. #2H02, $5. HEATH FM SOLID-STATE TUNER 3.8x 3.3x1.5; #110-39, $4.95



SPIRAL INDUCTO TUNER 60-90MHZ w/50PF PARALLEL 3 SEC. SILVER PL. 4½ TURNS. 3⅝x1⅜x2 #37695 RE-MOVED $5.95



LC-902 ANTENNA INPUT TANK FOR TN-2A/APR-1 TUNING UNIT, FREQ. 76 TO 300 MHZ. WITH VARIABLE CAPACITOR, COIL, AND 955 TUBE SOCKET. SIZE: 4⅜x3 WT: 4 LBS. UNUSED $5.95

LC-702 ANTENNA MIXER TANK FOR TN-3A/APR-1 TUNING UNI FREQ. 300 TO 1000 MHZ. WIT VARIABLE CAPACITOR AND COI SIZE: 2⅜x3⅜ WT: 3 LBS. PRICE: UNUSED $3.95

LC-701 OSCILLATOR TANK FOR TN-3A. WITH VARIABLE CAPACITOR AND COIL. SIZE: 4⅜x WT: 4 LBS. UNUSED $4.95

RECEIVER STYLE VARIABLE CAPACITORS, 500 V spacing; ¼" dia shaft. 3½x1⅛x1⅛, unused.

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3-gang, 25-500 pf/gang; geared tune. ASP3496 $5.95

3-gang: 2/25-460 & 25-180 pf; #9776 $4.75

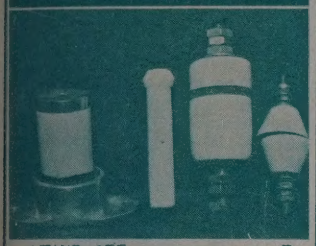
3-gang, 20-360, 20-280, & 20-110 pf; 2-speed drive ¼" and 1/8" dia shaft. #33V021H01, $2.75

#512-001, 15-325 pf single section; 1.4x1.4x1.3 $2.50

#C2/R174, 5-42 pf trimmer; 1x½"dia sh, 1⅜x1⅛x1⅜ $1.25

#C44/R174, 5-55 pf trimmer 5/8x¼" shft, 1½x1x1¼ $1.50

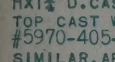
INSULATORS



STAND-OFF, CROWS FOOT, 7" Hx1½ D.CAST BASE, 2¼ CTRS. TOP CAST W/3/16"-20 SCREW #5970-405-8992 $4.00
SIMILAR, ABOVE 3" 3.00

FEED-THRU INSULATOR (FIG2) 1/2" HOLE 7/8" DIA. W/NECK 3" LONG 30¢
6" LONG 50¢ 8" LONG 60¢
STOCK NO. 1014-(LENGTH)
SAME AS ABOVE OVAL TWIN-

PORCELAIN STAND-OFF INSULATORS, SCREW THREADED.
#P-4H-.75D, 8-24 THRD, $.50
#P-5H-.75D, 8-24 THRD, .65
#P-6.75H-1D, 10-24 THR, .85



STRAIN INSULATOR, 3x2¼" dia; ¼" to ½" dia taper feed-thru core. 1 lb sh, #STR-84 $.95
IN-88 SPREADER INSULATOR, 2½x½"dia; 1/16" hole, 4/$1.

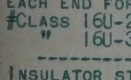
#JFD-516 ANTENNA HARDWARE KIT for 1940's autos; has two 1.5"Hx1.3" dia bullet-style insulators w/0.4" dia feedthru holes, and mounting hardware. Original pkg, $3.

GLASS-BONDED MICALEX STRIPS 10"Lx1"Wx5/8"Th. Five holes .2" dia. #3G110-160, $1.50

GE #K7102768P1, same as above, 7-3/8"Lx3¾"Wx3/8"Th. Ten holes, $3.00 ea.

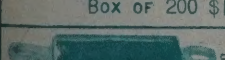
INSULATOR THREADED BRASS EACH END FOR 1/4" SCREW.
#CLASS 16U-2½x1½" $2.
" 16U-3½x2" $3.

INSULATOR STANDOFF FEED-THRU, THREADED ONE END; 3/8" HOLE. ACE-3"HX1¼" $1.

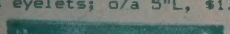


STRAIN INSULATOR, 4½x2½" dia; 1" dia core feed-thru 1 lb. #STR-1610, $1.95 ea

STRAIN INSULATOR
BROWN 2½"x 1½" ½" HOLES EA END, OPPOSITE SIDES. #3G100
PRICES: 79¢ EA. 4 FOR $3.
BOX OF 200 $125.00



IN-86 SPREADER INSULATOR, 3"Lx1.3"W porcelain, 1" dia eyelets; o/a 5"L, $1.00

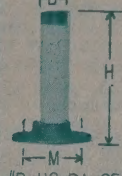


14" LONG SPREADER INSULATOR brown porcelain 14x1.3x1; 3 lbs sh. #3G1100-192, $2.75

AC CORD 3-CONDUCTOR CORD, 8' #16 wire; grey moulded plug. #W16-3C $1.65
HEATER CORD type HSJ, 3-conductor 7.5' #16 wire; grey moulded R-A plug. #HSJ-16 $2

STAND-OFF'S

STAND-OFF INSULATORS, CROWS FEET TYPE. BRASS AND PLATED BRASS BASES AND TERMINALS.



D=DIAMETER
H=HEIGHTH
M=MOUNT BASE HOLES' CENTER DISTANCES
ST=SCREW TERMINALS
CT=CLAMP TERMINALS

#B-H3-D1.25-ST3, BROWN CERAMIC; M-2.25". TERM. CAP SIZE: 7/8x1-5/8" DIA. SHPG. WT: 2 LBS. $2.75
#B-H4-D1.25-ST2, WHITE; M-2.25". TERM CAP: 1x1-5/8" DIA. 3 LBS. $3.25
#XW-H5-D1-ST, WHITE; M-2.25 TERM CAP: ½x1" DIA. $3.00
#W-H5-D1.25-ST, WHITE; M-2.625". TERM CAP: 3/8x1¼" DIA. 3 LBS. $3.75
#B-H5-D1.25-CT, WHITE; M-2.25". TERM CAP: 1x1-5/8" DIA. 3 LBS. $4.00
#BL-H6-D1.25-ST2, BLACK PAINT ON BRASS; M-2.625" TERM CAP: 1½x1½" DIA. SHPG. WT: 4 LBS. $4.25
#B-H8-D1.25-ST2, brown; M-2.625". Term cap 1x1½" dia; 3 lbs sh. $5.50
#B-H7-D1.25-ST, BROWN; M-2.25". TERM CAP: 5/8x1-5/8 SHPG. WT: 3 LBS. $4.75
#W-H8-D1.75-NTTH, WHITE; M-3.75". NO TERM CAP; THREADED. 6 LBS. $5.25

FLEXIBLE COUPLING

CERAMIC FLEXIBLE COUPLING 2" dia x 1.3" for 0.25" dia shaft. #COUN011, $1.00 ea

#COUN008; 2-5/8"dia x 2", for 3/8" dia shft. 79¢ ea

#COUN009; 2X2 CERAMIC COUPLING for 3/8 dia shaft. 69¢ ea

#COUN010; 3½" dia x 1½", for 3/8" dia shft. $1.25

AC LINE CORDS

3-COND. GROUNDED equipment cord, 8' #18 wire. Molded plug; black. #FW-3CG $1.25
#W14-3CG, as above but #14 wire; black. $2.00 ea
3-COND w/business machine plug, fits most Hewlett-Packard equip. Without AC plug; 5½'. #HP-3CG $1.50

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MORE --- DOLLAR DAZE

TOGGLE SWITCHES, SPST cut-offs, 5/$1.00 **13**
14 PUSH SWITCHES, SPST norm-open, 5/$1.00
SLIDE SWITCHES, 2PDT and SPDT, 5/$1.00 **15**

SPST ROCKER DIP SWITCHES for PC board use. Can be soldered or fit in socket. Grayhill mfg. NEW #763B04, 4 sw, $.75; 5/$3.

SELECTOR SWITCH 15 BUTTON, MAKE ONE BREAK ONE, RELAY RELEASES ALL BUTTONS WHEN ACTIVATED, 115 VAC OR 24VDC
SIZE: 12½x7½x2; WT: 7 LBS.
URC#1524115 NEW $3.95

MICRO SWITCHES

SPST MICROSWITCHES 1-7/8x 5/8x1½, 30¢ ea unless otherwise noted. Normally open-n.o. Norm closed-n.c.

#WHBT349A-1 n.o. lever

#YZ-3RLTC n.o. lever 15A

#SW-186 n.o. ext-pin

#WZ-RS9 n.o. ext-pin

#2MC3-1A n.c. pin; 1-5/8x ⅝x⅜ size.

#V3-23 n.o or #V3-21 n.o. pin; 9/16x1x1-3/8 size.

MU-SWITCH Type D in split dye cast housing; ½" tap conduit hub. 17/8.5 amp 125/250 VAC, new, 75¢

SPDT, one side n.o./other n.c.; 1-7/8x5/8x1½, 40¢ ea

#3Z-3R244T4, pin style

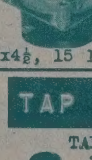
#WHBT349B-1, lever style

#BZ-2R, button w/mtg 50¢

#V3-1 9/16x1x3/8 size

ARROW-HART 100 AMP 600 V AC tap switch 2-deck 2-pos on-off. 6¼x6⅝ x4⅛, 15 lbs. #8944 NEW $12.

TAP SWITCHES

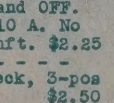


TAP SWITCHES, 120/240 VAC 10/5 amps unless otherwise noted; 2½"d. Used.

#AHH-23-10; 2-deck 3-pos w/knob $2.

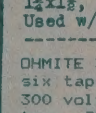
#AHH-230; 2-deck 3-pos and OFF. Cont. turn; 15/10 A. No knob; 3/16" d shft. $2.25

#AHH-33-10; 3-deck, 3-pos with knob, $2.50



#AHH-2W-3W 3-pos with OFF. 120/240 VAC 30/15 A (2-wire), 15/15 amp (3-wire). 1-7/8x 1⅝x1⅛, 2 lbs sh. Used w/knob $2.50

OHMITE 312-6 TAP SWITCH, six taps rated 25 amps AC 300 volts, 150 V between taps. Shaft 3/4"x1/4" dia; o/a 3.5" dia x 2.5", $3.95



ES TAP SWITCH, 60 amp 500 VAC/250 DC 4-postion 2-deck, 6 cont/deck. Pos 1 makes cont 2-3, P2 (1-2-4), P3 (1-5), P4 (1-2-6). 5½x6x4½, 10 lb ES#125402A, unused $16.95

PUSH SWITCHES

DPST normally open, 1 amp 250 VAC; #PSW004 35¢

DPST interlock n.o., (3Z-9825/254), #PSW006 65¢

SPST pull switch, normally open, #PSW007 35¢

SPST normally closed case ground; #PSW008 35¢

SPST normally closed, Grayhill #4002 50¢

2-BUTTON momentary; red breaks, black makes. 3½x 1-5/8x1-1/8; #RB-BM $1.50

MULTI PUSH

SWITCHCRAFT DW-Type, each section DPDT 3 amps AC; 0.5 A DC 125 V non-inductive. Can use T-1¾ size lamp. NEW
#67097-506, 9-button Push-on/Push-off; 1x6¼x1⅛ $7.75
#67091K-506, 9-button interlocked, $6.50
#67137-506, 13-button Push-on/Push-off; 8¾"W. $9.75
#67131K-506, 13-button interlocked, $7.95

MINI-TOGGLES

MINI-TOGGLE SWITCH STRIP, 9-SPDT C&K U11 and one U15 momentary toggles soldered to PC board; 13/16"L handles. 2 lbs. #MT-9-1M $4.50

CUTLER-HAMMER mini-toggles, all 120 VAC 6 amp; NEW:
DPDT center-off $1.50 3/$4
3PDT on-on, $1.65, 3/$4.25
4PDT on-on, $1.75, 3/$4.50

SWITCHES

MINIATURE SWITCHES, all new. Black: blk. White: wh.

DPDT momentary, blk or wh button (a); C&K #8221 $.65
SPDT on-off-on, wh. toggle (b); Alco #MLD106E, 75¢
SPDT on-on, blk. rocker (c) JBT #MR2-123, 65¢
SPDT on-on, blk. push-type Alco #MSP105D, 60¢
SPDT on-on 1-side momentary blk or wh push; CK8168 65¢
SPST red or wh. tog. (e), not mini. #CH8381K22 60¢
SPDT mini-toggle, baton throw; on-on. #7101T 65¢

DPST one side mom. (f) toggle; Alco #CST-023TA, 2/$1

DPDT on-on slide (h), 6/$1.
DPST sub-mini slide switch; Chicago EIA 50, 5/$1.

SWITCHES

AIRCRAFT TYPE SWITCH TWO HOLE MOUNTING FIG. #1

CIR	CON	RATING	NO	PR
SPST	NEW	5/125	B-1S	.65
ABOVE MOMENTARY N/CLOSED				
SPDT	rem	5/125	B-9A	.50
(above center-off)				
SPDT	NEW	15/125	B-1B	.30
SPDT	REM	5/125	B-7A	.55
(CENTER OFF, MOM ONE SIDE)				

TOGGLE SWITCHES

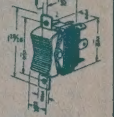
TOGGLE SWITCHES SINGLE HOLE MOUNTINGS: CONDITION NEW & "REM" REMOVED FROM EQUIPMENT, ALL GUARANTEED.

CIR	CON	RATING	NO	PR
SPST	REM	8/125	8817K2	.35
(ABOVE SWITCH MOMENTARY)				
SPST	REM	6/125	SW-105N	.30
SPDT	REM	8/125	ST-13D	.25
("ON" BOTH SIDES)				
DPST	REM	3/125	7463954	.25
DPST	rem	10/125	ST-52K	.40
DPDT	REM	5/125	ST-22R	.35
3PST	NEW	15/125	SW3115	1.00
4PST	REM	15/125	7661K5	1.00

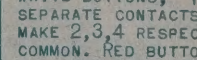
TEN PUSH SWITCH STRIP EACH D.P.D.T. INDIVIDUAL HOLD OR COLLECTIVE OR RELEASE. NEW 12x4x3/4; NO.4C5231 $2.25

ROCKER SWITCHES
0319 SPST
39¢ 3 FOR $1.00

0348 DPDT
59¢ 2 FOR $1.00



0320 SPDT MOMENTARY BOTH SIDES. 65¢ EA. 2 FOR $1.20



PUSH BUTTON SELECTOR
WHITE BUTTONS, 1 THRU 4 SEPARATE CONTACTS, 5,6,7 MAKE 2,3,4 RESPECTIVELY W/ COMMON. RED BUTTON RELEASES ALL. RATED @ 120/240VAC 8A SIZE: 4⅜x1½x2½; WT: 2 LBS. GE#ASP8128-417 UNUSED $.75

LEVER SWITCHES

4PDT ONE SIDE 2PDT OTHER SIDE, BOTH SIDES MOM.# 1155 NEW $2.00

TV-2 tube test P1 lever sw; make 2-break 2. Removed $2.

2PDT ONE SIDE, OTHER 2 MAKE, P/O EE-2, USED $1.00

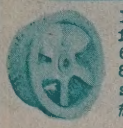
SPDT make before break and 2/SPST normally closed; single hole mount. Teletype #129596 (FSN #5930-259-6880), unused, $1.50

2PST ONE SIDE ONLY HOLD, CTR OFF, ONE HOLE MTG. SWITCHCRAFT 513148 NEW $1

200/400 AMP TAP

#3238 3PDT TAP SWITCH with "off"; rated 200 amp 250 VDC or 500 VAC. 6x9½x9, 20 lbs; ES mfg. New $19.95
#0279 3PDT TAP SWITCH, no "off"; rated 400 amps 600 VAC. 9½x9x9, 25 lb. $29.95

EQUIPMENT BLOWERS



18 VDC 2400 RPM 5-BLADE FAN removed from oscilloscopes; runs well on 6 VDC. 7" dia blade rotation; o/a 8¾"dia X 5½" depth. Includes eight single TO-3 heatsinks; 8 lbs sh. #B401/USM, used, $16.95

DUAL BLOWER, 3450 RPM 1/12 HP 115 VAC 60 Hz 1.1 A GE-motor; 3" inlet, 3½x2 outlet. W/capacitor; 11x6x6, 10 lbs. #GE-JG284 used $15.

TORRINGTON BLOWER, 200 CFM 220 V 3000 RPM (100 CFM 115 VAC 1500 RPM). 4" dia intake; 2½x3 out. Outlet mtg 4" dia. O/A 7x7x7⅛, 10 lb Torrington #A13980, unused $18.95

EASTERN AIR TWO SPEED BLOWER, 2800/3200 RPM capacitor-start motor 1/40 HP 0.38 amp 115/230 VAC 50/60 Hz. Mounted on base w/4 mfd capacitor, terminal strips. Approx 150 CFM. Intake 3" dia, outlet 1⅝x2½. O/A 8⅝x11x6½, 14 lbs sh wt. EAD#B747M1-C, used, $12.95

FASCO DUAL BLOWER 50 C.F.M. 115 VAC 60 Hz 0.74 amp @ 2800 RPM. Outlets 2x1-5/8. One outlet is parallel to mounting base; other is at 90 , but can be modified as shown in picture. Inlets 2⅜"dia. Overall 7½x6x5½, 12 lbs sh. Fasco type 21, #127S217, unused, $10.00

5-BLADE COOLING FAN removed from military power supply; 4¼" dia rotation. 115 VAC 0.1 amp 3300 RPM; w/capacitor. 2⅝"D. #FAN-2054, $5.95

BLOWER/VACUUM, 115 VAC solenoid reverses intake/outake allowing unit to work as blower or vacuum. 1½" dia hoses; 6x8 dia, 12 lbs. #3M-CPB, $12. Less soelenoid, $9.

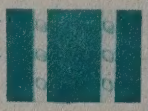
5-BLADE 7" DIA FAN in 7⅛" dia X 6" h housing; 115 VAC 60 Hz. Can probably be adapted to duct fan. With 2 mfd capacitor; 9 lbs sh. #14-20/5B-DF, used, $14.95

4-BLADE 6" DIA FAN in conical 7½" to 5-3/8" dia X 7" high housing; 115 VAC 60 Hz. Adapt to use as duct fan. 8 lbs sh. #3M/4B-DF, used, $9.95

FAN-TYPE BLOWER, 115 VAC 60 Hz 20 watts; 4" plastic fan blades. Open frame low-noise motor in metal case-ment-type frame. Approximately 100 CFM. 13x5x2, 5 lbs sh. Howard #1075-3102, used, $4.50

HEATSINKS

Clean HEATSINKS, 10.3x4.5x1.3, NEW: #6T1041F flat bottom; f/six TO-3, $4. #10D1041 f/7 .25"d /3-0.38"d diodes $3 #1D1041F flt-bot f/0.75"d diode $3.50



HEATSINK PANEL has four 10x2-7/8x1¼ heatsinks and six 2N3055's on 10⅛ x14 panel; 9 lbs sh. #HS-M32, $12.00

#WE-H1D HEATSINK w/diode approx 100 PIV 25 amp; 5x3x1¼. Used, $2.50

#DHS, ANODIZED DRILLED FOR DO-4 DIODES. 3-7/8x2⅜x1-1/8, 2 FOR $1.00

DUAL TO-36 HEATSINK, 3x3¾x1-3/8; flange mounting. #HST036, $.75 each

#3D523-8 HEATSINK, 5x3x1-9/16; drilled for 3 large stud rectifiers (1" dia recesses), $2.

#2D734 HEATSINK, 7x4¾x2⅜, drilled with two 25/32" dia. holes. 3 lbs sh. Unused, $3.50

SERIES 680 HEATSINKS, 1¼" sq. NEW #1.0G-5-5, 1" high with 0.33" dia. hole for rectifier, 85¢ ea. #.75A-16-1, 0.75" high for TO-3 transistor, 75¢ ea.

COMPACT AXIAL FANS

AXIAL FANS, 4⅝" square X 1⅝" thick; 115 VAC 60 Hz. Removed from equipment; guaranteed. Rotron MUFFIN® or similar; 3-blade 14W $9.

5-BLADE axial fan in metal frame; 18 watts. Various manufacturers, used, $12.

ROTRON BT2A-1 BISCUIT® fan, right angle 1"x2" out-take; 115 VAC 50/60 Hz 16 watts, $12.95

SPRITE FAN

ROTRON MODEL SU2A3 Small 3-1/8x3-1/8x1-5/8 size. Seven blade plastic fan in die cast housing. 115 VAC 60 Hz. 2 lbs. sh. NEW, $12.95

FIVE BLADE COOLING FAN, 4-5/8" dia. rotationi no enclosure. Mounting bracket hole centers 5-7/8" apart. 115 VAC 60 Hz. 2 lbs. sh. Airtrol #11-2100, NEW, $4.95

CARAVEL FAN

CARAVEL 10" FAN by Rotron. 3-blade fan in 3.5" deep aluminum housing has 590 CFM free air delivery; self lubricating bearings. 115 VAC 50/60 Hz 0.9 amp required; 8 lbs. #CL212, used, $21.95

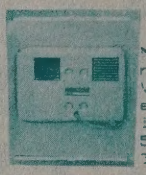
SCR HEATSINK ASSY

SILICON RECTIFIER BRIDGE, single phase half-wave; GE #C14114CX5 or equivalent. Rating approx 500 V 35 amps. 7x6½x5, 4 lbs sh. #KS-19576L1, used, ~~$5.95~~ $6.95

#75-4-2400 SERIES 400 HEATSINK with two 1⅝" dia. power rectifiers at least 100 PIV 100 amp each. Size: 5x5x6 w/1-5/8 fins. 8 lbs. sh. Removed, $20.

#75-4-400S SERIES 400 HEATSINK with 7/8" dia. SCR at least 100 PIV 100 amps. Size: 5x5x4, 4 lbs. sh. Removed, $5.95

RACK BLOWER



McLEAN EQUIPMENT BLOWER RACK, rackmount assembly has dual 115 VAC 60 Hz 1.6 amp 1700 RPM blowers. Also top and bottom slide-in filters and 3-cond line cord. 5" depth behind panel; 23x19x8.3 35 lbs sh. #2NB512S41 NEW $39.50

HOWARD 12 W BLOWER

HOWARD #1175-08-4 BLOWER, 115 V 60 Hz 12 watts; intake and outtake each 7/8" dia. Suitable for quiet cooling/blowing uses. O/a 4⅜x3⅛x3¼, 2 lbs. w/hose, $6.95

ROTRON 7" dia FEATHER FAN, quiet 270 CFM free air delivery; three plastic blades in plastic housing, 2½" depth. 115 VAC 50/60 Hz 20 watts max. Used-checked $14.95

HOWARD 4⅝" square equipment fan with 5/8" deep aluminum cast frame and five nylon blades. Heavy duty motor rated 19 watts; overall depth 2-5/8". Removed from equipment. #1175-08, $9.95

5-BLADE FAN, 6¼" dia rotation; mounted in 9⅛x11¼ aluminum frame with 8x8 removable filter. Motor rated 105/125 VAC 50/60 Hz 1/40 HP 3350 RPM; 4 mf 330 VAC capacitor included. 5½" depth behind panel. 10 lbs sh. #B201/MD141, used, $10.95

HEWLETT-PACKARD

HEWLETT-PACKARD TEST METERS, used-complete; add $30 for "checked" price. Manuals, $7.50 each when purchased with a meter.

* *

HP-400D VTVM, 0.0001 to 300 V-rms in twelve ranges; -50 to +60 db. 10 Hz-4 Mhz response. 23 lbs sh. Reparable, $65.00

HP-400DR, same as above, except rackmount; 30 lbs. $60.

HP-412A DC VOLTMETER, 1 mv to 1000 VDC in 13 ranges; also 1 microamp to 1 amp and 1 ohm to 100 megohms. Mirrored scale; 23 lbs. $100.

HP-413AR DC NULL VOLTMETER, 13 zero-centered ranges from 1 mv-1000 VDC; rackmount. $60.

HP-410BR VTVM, rackmount version of 410B on pg 31; w/probe harness $60. W/o harness $25.

HP-431B MICROWAVE POWER METER solid-state unit for 0.1-10 mw over 10 Mhz-40 Ghz depending on thermister mount; 10 lbs. No thermister mount $65.

HP-302A WAVE ANALYZER, 20-50000 Hz, 30 uv to 300 V FS; also frequency restorer, $200.
HP-310A WAVE ANALYZER, 1-1500 KHz; 200, 1000, 3000 Hz bandwidth, $295.00
HP-202A FUNCTION GENERATOR, $50.00
HP-212A PULSE GENERATOR, $50.00
HP-3460B DVM, 0-999.99 VDC ±0.004%, $245.00 to 10 Mhz in three ranges, $75.00

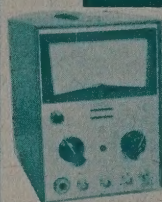
HEWLETT-PACKARD 650A TEST OSCILLATOR for 10 Hz to 10 Mhz in six ranges. Output 30 mv to 30 volts; 600 ohm impedance. Output attenuator 0-50 db in 10 db steps, flat ±1 db throughout range. 10⅛x19x15, 48 lbs sh. Used, reparable, $95.00; Cabinet for 650A, add $10. Manual, $8.50 w/purchase.

FLUKE 803D

FLUKE 803D AC-DC DIFFERENTIAL VOLTMETER, 0.1-500 volts AC-DC. Designed accuracy: ±0.2% (AC), ±0.05% (DC). Response 20 Hz to 10 Khz. 115 VAC 60 Hz required. 12¼x9⅛x16, 35 lbs. Used $49.50

HEWLETT-PACKARD 2401C INTEGRATING DVM, six digit, five ranges to 1000 VDC 0.01%, $215.

HICKOK MULTIMETER



HICKOK 1604M SOLID-STATE MULTI METER, achieves high gain by using chopper to allow use of AC-coupled amplifiers. AC response to 700 Mhz and AC volt ranges 0-0.5-1.5-5-15-50-150-300 VAC. Eleven DC volts full scale ranges from 0-0.5 V to 1500 V in 15-50-150 sequence. Fourteen DC current ranges 0 to 1.5 nanoamp to 150 ma in 1.5-50-15 sequence. Resistance ranges from 0-500 ohms to 500 megohms in seven steps. AC probe uses EA53 tube. Includes AC and DC probes, two test leads, and partial repro of manual. Requires 115/230 VAC 50-400 Hz. 7⅛x5½x9⅛, 13 lb sh. Used-reparable, $85. Checked, $125.00 T-CONNECTOR for 1604M, $30 w/purchase of set.

2400-3400 MHZ WAVEMETER

TS-117/GP WAVEMETER TEST SET designed for frequency measurements between 2400 and 3400 Mhz. Used to measure antenna radiation, local oscillator frequencies, relative field strength, and relative output. Q from 1800 to 2000. Includes 50 u-ammeter, sensitivity vernier, and frequency micrometer with conversion tables. Accessories AS-23 directive antenna, UG-183 cable, UG-57 and UG-131 adapters and transit case. Uses N connectors. 5x6x3, 15 lbs sh. Used, complete, $39.95 Less accessories, $29.95

SIGNAL GENERATORS

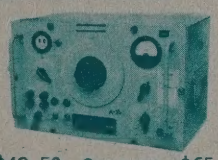
HEWLETT-PACKARD 606A, 50 Khz to 60 Mhz AM in six bands. Output: 0.1 uv to 3 volts into 50 ohms, vernier and step controlled. Features constant output and modulation and low distortion. 10½x19x13½, 50 lbs sh. Used, checked, $795.00

TS-418/URM-49, 400-1000 Mhz AM, CW, pulse. Output: 0.2 to 200K uv into 50 ohms. 12½x17¾ x13½, 70 lbs sh. Used, reparable, $175.00

TS-419/URM-64, 900-2100 Mhz CW and pulse @ 1 MW max. into 50 ohms. Repetition rate between 40 and 4000 pulse/sec. Delay: 3 to 300 u-sec. 14x17½x11, 50 lbs sh. Used, reparable, $165.

HEWLETT-PACKARD 608ER SIGNAL GENERATOR, 10-480 Mhz AM; rackmount. Checked w/book, $495. HP-618B GENERATOR, 3.8-7.5 Ghz-reparabl $275

AUDIO OSCILLATOR



TS-382* AUDIO OSCILLATOR, 20 Hz to 20 Khz in four bands. Output: 0 to 10 volts across 1000 ohms. With built-in 60 and 400 Hz reed frequency meter. Size: 10x12¾x18¾, Shpg. wt: 50 lbs. Net: 45 lbs. Price: Used, reparable, $49.50. Checked, $65.

TS-382F AUDIO OSCILLATOR, most recent version TS-382. Used, reparable, $60. Checked, $75. TRANSIT CASE F/TS-382F, used, $10.00.

TEST OSCILLATOR

SG-71/FCC CARRIER TEST OSCILLATOR, similar to Hewlett-Packard 233A and used to check carrier current systems; 50 Hz to 500 Khz in four bands. High power output: 3 watts into 600 ohms balanced load makes test loops 100 to 200 miles long. 6 V 600 ohm output for audio tests. W/50 VDC output meter; provision for carrier modulation. Requires 115/230 VAC 50-1000 Hz. 11x17x15, 46 lbs. Used-reparable $65 Checked, $105. MANUAL, partial repro, $10.00

1000 Hz. 11x17x15, 46 lbs. Used-reparable, $50. Checked, $85. MANUAL, partial repro, $10.00

KLYSTRON POWER SUPPLY

HEWLETT-PACKARD 715A KLYSTRON POWER SUPPLY for low power klystron tubes. Output -250 to -400 VDC regulated 30 to 50 ma for the beam electrodes and 0-900 VDC regulated for the reflector electrode. Reflector volts can be modulated by internal 1 Khz square wave or externally; square wave modulation adjustable up to 120 V peak-to-peak. Frequency modulation for 60 Hz sine wave 0-350 V p-p. Requires 115/230 VAC 50-60 Hz. 7½x11½x13¾, 26 lbs sh. Used, with output cable, $49.50; Less output cable, $39.50

VOLTMETER-VLF RECEIVER

ME-71/FCC AUDIO LEVEL METER, covers 20 to 500 Khz continuously tuneable. As selective detector, it measures RF carrier across a 135 ohm balanced or 600 ohm unbalanced line. Variable attenuator provides input sensitivities from -70 to +42 DBM indicated on 3½" dia. meter. Includes 100 Khz calibrator. Input impedance: 10K ohms. Audio gain and two phone jacks. Various models ("C" pictured). Power required: 115 VAC 60 Hz. 17x14x9; 40 lbs sh.

ME-71, w/National-type dial, used, $40.00
ME-71B, used, reparable, $45. ME-71C, $50.
Operational, add $30. MANUAL, repro, $8.50

DISTORTION ANALYZER

HEWLETT-PACKARD DISTORTION ANALYZER MODEL 330BR. Will give quick accurate measurements of distortion as low as 0.1% at any freq from 20 cps to 20,000 cps It will male noise measurments of voltages as smal as 100 microvolts. The analyzer has high sensitivity and high stability. Its cir cuit 20 db amplifier, oscilliscope terminals, and precision vacuum tube voltmeter which is useable separately. Exceptionally usefull for all kinds of audio measuements in recording, broadcast, motion picture, laboratory etc. Size: 8¾x19½x13½ (rackmtg) wt: shpg. 40 lbs. Prices: used Reparable $185. checked $225.

TS-723-C SPECTRUM ANALYZER, military version of HP-330B; Used, rep, $165. Checked, $210

FM SIGNAL GENERATOR

SG-12/URM- FM SIGNAL GENERATOR, 19.5 to 102 Mhz FM in five bands with deviation ranges 0 to 25, 50, and 100 Khz; 1000 Hz modulation. Also IF outputs on 1.4, 2.515, 2.65, 2.88, 4.3, 4.45, 5.0, 5.35, 15 Mhz, plus two spare positions. Calibrated output voltages: 0.5 uv to .01 volts (RF); 0.5 uv to 1.0 v (IF). Output impedances: 10 ohms (RF); 25 ohms (IF). With 1 Mhz and/or 2 Mhz crystal calibrator markers. Power required: 115/230 VAC 50-1000 Hz. Size: 12x18x12; Shpg wt: 85 lbs. Used, reparable, $65.00; Checked, $125.00 MANUAL, partial repro, $12. TRANSIT CASE $15.

10 KHZ TO 50 MHZ

AN/URM-25F SIGNAL GENERATOR, covers 10 Khz to 50 Mhz AM in nine bands. RF output: 0.1 to 100K microvolts into 50 ohms; 2 V adjustable across high load impedance. Modulation 0-50%, 400 or 1000 Hz internal. 1 Mhz calibrator; designed accuracy ±0.05% above 10 Mhz Requires 115 VAC 50-100 Hz. 11½x14x10¾, 44 lbs. Used, reparable, $145. Checked, $210.00

ACCESSORIES available w/purchase of URM-25F:
BOOK-partial repro, $10. DA-109 Dummy Load $6
CX-2919 Test Lead Adapter, $7.50
CU-406 Impedance Matcher, 500 ohms up, $7.50
CU-408 Impedance Matcher, 70 ohms, $7.50
BNC Cables, 6", $1.00; 4 feet, $1.50

SPECIAL SALE VTVM's!

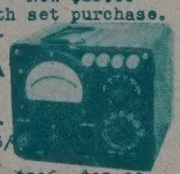
* *

VACUUM TUBE VOLTMETERS at reduced prices due to special quantity purchase. All are used.

TS-505/U, ranges 0 to 2.5, 5-10-25-50-100-250-500 Vrms plus 1000 VDC scale. Also X1 thru X1 Megohm ranges. Response: 30 Hz to 5 Mhz. With AC, DC, and ohm probes. 9¾x9x6, 17 lbs. Reparable ~~$45.~~ NOW $20. Checked, ~~$65.~~ $45.

MANUAL, partial repro, $8.50

HEWLETT-PACKARD 410B, features 20 Hz to 700 Mhz response with full scale ranges 1-3-10-30-100 and 300 Vrms plus 1000 VDC. Resistence scales X1 thru X1 Meg. High frequency AC probe has EA53/2-01C tube. 11½x7½x8¾, 15 lbs sh. Reparable, ~~$89.50~~ NOW $59.50 Checked, ~~$109.50~~ NOW $85.00 Manual, $8.50 with set purchase.



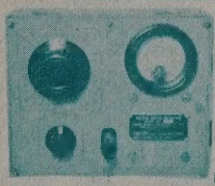
ME-180/USM-116, similar electronically to the HP-410B, set has added 0.02 to 1000 MA DC feature. Response to 100 Mhz with AC probe and to 700 Mhz with optional T-connector accessory. AC probe uses 6923/EA52 tube. 7x8½x9, 21 lbs sh. Reparable, ~~$55~~ $35. Checked, ~~$80.~~ $65.00 T-connector, $10 w/set. Manual, par-repro $10

FREQUENCY COMPARATOR

CM-212/USM-144 FREQUENCY COMPARATOR, used with frequency counters to determine with high accuracy frequencies from 10 Mhz to 12.4 Ghz; similar to Hewlett-Packard 540A oscillator. Measures CW, FM, and pulse modulated RF signals. Unknown signal is fed into USM-144 and is compared to a mixed frequency generated from a stable, continuously adjustable fundamental from 100 to 220 Mhz. Difference in the unknown is shown on 2" dia CRT (2BP1) display. Final determination of the input signal made by the zero beat of the fundamental multiplied by the appropriate hermonic. Requires 115 VAC 50-440 Hz; 13½x19½x13¼, 65 lbs sh wt. Used, reparable, $99.50

TRANSIT CASE $10 w/purchase. MANUAL $10 w/set

AUDIO POWER METER

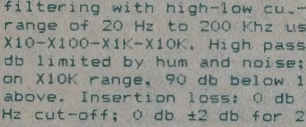


TS-585 AUDIO POWER OUTPUT METER, reads audio frequency power in milliwatts or in decibels referred to 1 MW in 600 ohms. Range: 0.1-5 MW (-10-+7 db), 1-50 MW (0-+17 db), 10-500 MW (+10-+27 db), and 100-500 MW (+20-+37 db), read on 3.5" meter. Input impedance: 2.5 to 20000 ohms in 40 steps, 2.5-3-4-5-6-8-10-12.5-15-20-25 sequence. Freq-range: 30-10000 Hz. 8.5x11.5x5.5, 16 lbs sh. Used-reparable, $65. MANUAL for TS-585, partial repro, $8.50

WHEATSTONE BRIDGE

ZM-4 RESISTANCE BRIDGE. portable Wheatstone bridge used to measure DC resistance of communication and power lines to determine shorts, crosses, and grounds. Resistance measurement range 1 ohm to 1,011 M-ohms ±0.15%; resistance box range 0 to 10,110 ohms, 16-500 ma. Galvanometer indicates degree of balance in test circuit. Requires 3-"D" cell batteries. Also 22.5 to 200 VDC for more accurate readings above 1000 ohms. 5.8x7.3x8.8, 12 lbs sh. Used-reparable $45.

ELECTRONIC FILTER

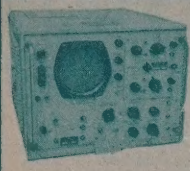


SKL 302 DUAL VARIABLE ELECTRONIC FILTER has dual filter sections each with high and low pass filtering with high-low cut-off frequency range of 20 Hz to 200 Khz using decade scales X10-X100-X1K-X10K. High pass greater than 90 db limited by hum and noise; Low pass 60 db on X10K range, 90 db below 1 MHz, 60 db above. Insertion loss: 0 db ±1 db for 20-20K Hz cut-off; 0 db ±2 db for 20K-200 KHz. Input impedance 2 Megohms shunted by 32 pf. Out imped: 300 ohms. Max signal in: 6 V peak. W/tubes 10/12AT7, 0A2, 6AV6, 2/6AV5 or 6AQ5. Requires 105-125 VAC 50-60 Hz; 5.2x19x13.6, 26 lbs. Used-reparable w/partial manual, $75

7 TO 11 GHZ GENERATOR

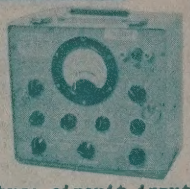
POLARAD 1108 SIGNAL GENERATOR. 6.95 to 11.0 GHz CW, square wave, and sawtooth FM; has three place mechanical digital tuning. Output attenuator continuously tunable from 0.1 u-volt to 300K uv; uncalibrated outputs of 20 mw (6.95-8 GHz) and 10 mw (8-11 GHz). Internal square wave and FM rate 800-1200 Hz; FM sweep adjustable over 5 MHz most of band. 2/A713441 transistors and tubes EL34, 2/0A2, 8068, A160034 Polarad klystron. Requires 115/230 VAC 50-60 Hz. 5.3x16.8x18.3, 50 lbs sh. Used-reparable with book, $365.00

DUAL-TRACE PRICE-CUTS



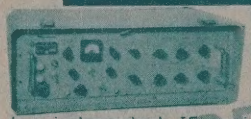
AN/USM-140C OSCILLOSCOPE, DC TO 30 MHZ MAINFRAME, SIMILAR TO H-P 170A. INCLUDES MX-2930 DUAL-TRACE VERTICAL PLUG-IN WITH DC TO 22 MHZ PASSBAND. INPUT IMPEDANCE: 1 MEG-OHM SHUNTED BY 30 PF. INPUT SENSITIVITY: 0.02 VOLT/CM TO 20 V/CM. FUNCTIONS: CHANNEL A, CHOPPED, A-B, AND ALTERNATE. HORIZONTAL MX-3078 PLUG-IN SWEEP RATE: 0.1 U-SEC/CM TO 5 SEC/CM. HORIZ. SENSITIVITY: 0.1 V/CM TO 10 V/CM. MAGNIFIER X1 TO X100 IN SEVEN STEPS. CALIBRATOR: 0.2 MV TO 100 V. IN NINE RANGES. POWER REQUIRED: 115/230 VAC 50-1000 Hz. 14.5x19x22, 100 lbs. Used-reparable $150 Checked, $235. MANUAL, partial repro, $17.

TRANSISTOR TESTER

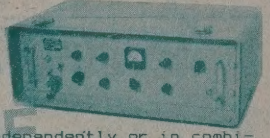


HICKOK MODEL 1890M TRANSISTOR TESTER, checks transistors in and out of circuit. Collector leakage current (I_{ebo}) ranges: 0-50-500 ua and 50 ma. Collector current (I_c) 0-1-10-100 ma. Current gain Beta: 0-50-100-200-400. AC test signal 1000 Hz. Transistor input resistance range 50-10000 ohms; circuit input impedance 25-100000 ohms. Collector voltages 0-1.5-3-4.5 VDC. Has transistors 4/2N651A, 2N650A. Requires batteries (not supplied) Eveready 763 (22.5 V) and two Burgess 2370-ST (4.5-3-1.5 V). With partial repro of manual. 10x10½x9½, 18 lbs. Used-reparable, $54.50

SSB TEST EQUIPMENT



SG-376 TRANSISTORIZED TWO-TONE I.F. SIGNAL GENERATOR for testing SSB equipment. Has two 20 Hz-20 KHz audio oscillators and two independent IF oscillators. IF outputs: 497.5, 498.5, 501.5 or 502.5 KHz only, plus 497.5 & 498.5 or 501.5 & 502.5 KHz simultaneously. Output levels: 2-2.5 V into 600 ohms (AF); 1-1.25 V into 50 ohms (IF) with attenuation to 100 db in 1 or 10 db steps. Requires 115 VAC 50-450 Hz. 5.5x19x11, 35 lbs Used-reparable $95. Checked $155. MANUAL $10



SG-823/URM-144 TWO-TONE REFERENCE GENERATOR for measuring receiver sensitivity and SSB transmitter distortion. Has two RF outputs usable independently or in combination without intermodulation effects. Outputs 2, 3.6, 4, 7.2, 8, 14.4, 16, 28.8 MHz at 100K u-volts max into 50 ohms. Freq adjust +0.05% (A), +.0025% (B). Requires 115 VAC 60 or 400 Hz. 5.5x19x11, 35 lbs sh wt. Used-reparable $90. Checked $145. MANUAL $10

VLF TEST SETS

TS-2669 ENVELOP DELAY DISTORTION MEASURING SET Acton mfg; multi-function w/5-digit frequency counter & signal generator over 0.1-600 Khz 10 db max. Provides carrier, reference, & sweep signals; 25, 83-1/3, 250 Hz modulation. Delay Millisecond and % Modulation meters; solid-state. Reparable, $325.

ME-6D VOLTMETER

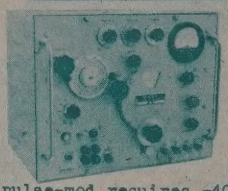
ME-6D/U VTVM, covers 0.005 to 500 V-rms in six ranges and -65 to 57 db. Built-in 15 Hz-250 Khz wideband amplifier with max. voltage gain of 4500; minimal distortion to 23 VAC output. 115 VAC 50-400 Hz. 11½x6½x5¼, 14 lbs sh wt. Used-reparable, $20. Checked, $40. MANUAL f/ME-6D, partial repro $8.50

8500-9600 MHZ TEST SET

TS-148/UP SPECTRUM ANALYZER, 8470-9630 Mhz with 3" CRT (3BP1) display. Measures frequencies of cavities, echo boxes, magnetrons, and local oscillators. Receives CW and pulse; transmits CW and FM carrier. 1 MW power output (2K25). Max. spectra dispersion: 1.5 Mhz/in. Requires 115 VAC 60 Hz. 19x13½x25, 45 lbs sh. Used, $50.00

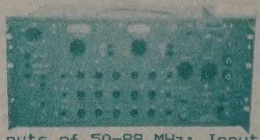
AN/UPM-33 TEST SET, includes TS-148/UP, wave guides, horn antenna, cables, transit case, and manual; 80 lbs sh. Used, $85.00

4 GHZ TEST EQUIPMENT



TS-403 SIGNAL GENERATOR similar to Hewlett-Packard 616B; 1.8 to 4.2 Ghz directly calibrated. Output 0.1 uv to 200K uv into 50 ohm load monitored on 3½" round Power Level meter. Internal modulation 40 to 4000 Hz. External pulse-mod requires -40-470 V; width 1 to 2500 usec squarewave or modulated. Requires 115/230 VAC 50-1000 Hz. 17½x13½x13½, 70 lbs sh. Used-reparable $185. Manual, repro $10.

WESTERN ELECTRIC KS-15658 NOISE-FIGURE TEST SET for 3.7 to 4.3 GHz; controls Start-Stop, Lamp Current Adjust, 0-250 MA meter, +150 V test, and Input-Output ports. Requires 115 VAC 60 Hz. 8.5x9x7.5, 20 lbs sh. Used, $45.00



WESTERN ELECTRIC J68345B IF SWEEP OSCILLATOR, designed to sweep IF's of 4 GHz telephone equipment. Has two outputs of 50-89 MHz; Input-Outputs for AT-11-12-14 each with push-button attenuators 3-4-5-6-13. Also Det and Slope Out; Slope and Sweep controls. Requires 115 VAC 60 Hz. 8.8x19.5x10, 28 lbs sh. Used, $65.00 J68345C RF SWEEP OSC., 3.7-4.3 GHz, [WRITE]

DUMONT 304 SCOPE

DUMONT 304H OSCILLOSCOPE, has big 5" CRT (5CP1). DC to 100 Khz response; usable to 300 Khz. 100 MV full scale vertical sensitivity. Sweep: 2-30 Khz. Max. sweep rate: 1" per u-sec. Input impedance: 2 meg-ohms paralleled by 50 pf. Graticule not included. Power required: 115/230 VAC 50-60 Hz 9x13½x19; 65 lbs. sh. Used, reparable, $45. 304H SCOPE shipped with 5CP7 CRT, $49.50 DUMONT 304A SCOPE, same as "H" model, but uses 5ADP1 flat-faced CRT. Used, rep., $50. MANUAL for 304A or H, partial repro., $8.50

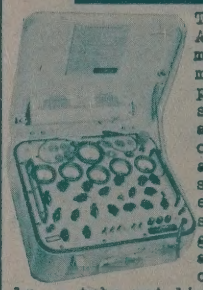
FR-149 FREQUENCY METER

FR-149/USM-159 TRANSISTORIZED FREQUENCY METER, COVERS 125 KHZ TO 1000 MHZ IN THREE RANGES: 125 KHZ-2.5 MHZ, 2.5-65 MHZ, AND 65-1000 MHZ. CAN BE USED AS A SIGNAL GENERATOR BY PROVIDING EITHER MODULATED OR UNMODULATED SIGNALS. FREQUENCY FUNDAMENTALS READ DIRECTLY FROM MAGNIFIED AND ILLUMINATED CALIBRATED FILM STRIP AND THEN INTERPOLATED IN ACCOMPANYING CALIBRATION BOOK. OPERATES FROM EITHER SIX "D" CELL BATTERIES OR FROM 115/230 VAC 50-450 Hz. SIZE: 11½x11½x13; SHPG. WT: 33 LBS. Used-reparable ~~$90.00~~ $75. Checked ~~$120~~ $115

SOLID-STATE SCOPE

OS-106/USM-117 TRANSISTORIZED OSCILLOSCOPE. DC to 5 Mhz bandwidth, 4QP2 rectangular CRT, and is very compact. Includes MX-2996 high gain vertical plug-in plus has dual-trace capabilities when used with MX-2995 plug-in (not included). Sweep range 0.1 usec to 0.1 sec in 19 calibrated steps in 1-2-5-10 sequence. Vertical sensitivity: 0.01 v/div to 20 v/div in calibrated steps in 1-2-5-10 sequence, variable to 50 v/div. Input impedance 1 Megohm shunted by 47 pf. Calibrator generates 1 Khz square wave at either 0.04 or 0.4 V p-p. Probe not available. Requires 115 VAC 50-60 or 400 Hz. 8.5x9.8x15; 20 lbs sh. Used-reparable, $165.00 Checked, $225.00; Manual-partial repro, $15.

TV-2 TUBE TESTER

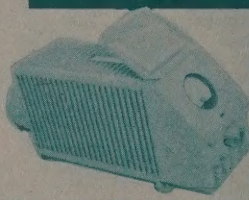


TV-2 DYNAMIC MUTUAL CONDUCTANCE TUBE TESTER, checks most military and older commercial receiving and low power xmitting tubes. Test sockets for 4,5,6,7-pin, 7- and 9-pin miniature, loctal, octal, acorn, sub-mini flat and round tube bases. Measures mutual conductance, emission, gas, noise, and shorts. Meters for filament, grid, plate, screen, signal, and transconductance (percent quality). Theoretically, a tube not listed on the roll data chart can be tested by setting the proper voltages on the meters provided those voltages are known. Requires 115 VAC 50-1000 Hz. 17½x8½x16¼, 50 lbs sh wt. Used-reparable ~~$95~~ $59.50 Checked, ~~$110.00~~ $95.00 MANUAL, partial reproduction, $10.00

VOLT-OHMMETER

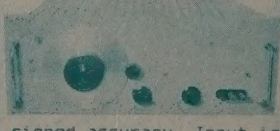
TS-618/PRM-15 VOLT-OHMMETER, rugged portable VOM with full scale ranges 2.5-10-25-100-250-1000 VDC and RX1 X10 X100 X1K X10K X100K ohms. Has 3½" rd meter, battery self-test, test leads, schematic w/info. Requires 3 "D" cells and -21 & +24 V source. Batteries not available. 8½x4½x5, 8 lbs. Reparable, $19.95

20-1400 MHZ WATTMETER



TS-118A WATTMETER, thermocouple type measures RF power over 20-1400 Mhz AM-FM-CW in ranges 20-100 Mhz (2-300 watts), 100-300 Mhz (2-500 W), 300-700 Mhz (2-250 W), and 700-1400 Mhz (2-125 W) depending on thermocouple used. DC millivoltmeter indicates voltage developed and the reading is translated into RF watts by use of calibration charts. SWR less than 1.25:1; Input impedance 50 ohms. Can be used as dummy load with proper adapter (not available). Includes thermocouples MX-1781-1782-1783-1785, tuning shunt MX-1784, connector adapter UG-999, and transit case. 8½x6x20½, 48 lbs sh. Used, $165. MANUAL, for above, partial repro, $7.50

H-P 200CDR OSCILLATOR



HEWLETT-PACKARD 200CDR WIDE RANGE OSCILLATOR, rack-mount unit covers 5 Hz to 600 KHz in five decade ranges; ±2% designed accuracy. Input impedance 600 ohms. Requires 115/230 VAC 50-1000 Hz. 7x19x14.5; 26 lbs sh. Used-reparable, $85.00

PRICE

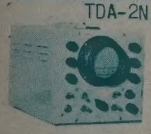
TRANSISTORIZED SCOPE

HFE T4214A TRANSISTORIZED SCOPE, British made, uses PC cards for pre-amp, deflection amp, time base, intensity mod, and sweep amp; provision for delay, trigger pick-off, and trigger delay. Approx 300 Khz response; top-to-bottom sweep can be easily changed to left-to-right. Standard oscilloscope controls including 0.1-10 V div attenuator in 7-steps, 1 usec-10 msec time base 5-steps, X2 multiplier; Time Base Shift, Free Run/Single Shot, etc. Slightly bent frame; less case and power plug. Requires 115 VAC 60 Hz or 12 VDC 1 amp. 9x17x25, 63 lbs sh. (Can be shipped UPS in two packages.) Used, reparable, ~~$50~~ $30

OS-8 OSCILLOSCOPE

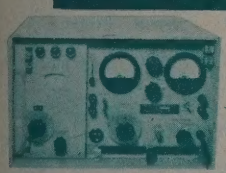
OS-8/U OSCILLOSCOPE with 3RP1 CRT; small portable unit has DC to 2 Mhz response. Vertical and horizontal sensitivity: 0.075 v-rms per 1" deflection. Sweep range: 3 to 50 Khz. Input impedance: 9 megohms shunted by 11 pf DC. Direct access to vertical and horizontal plates. Requires 115 VAC 50-1000 Hz. 9x6x13½, 20 lbs sh. Used-reparable, $49.50; Checked $75.00 MANUAL for OS-8, partial repro, $8.50

TELETYPEWRITER SCOPE



TDA-2N TS-1060 TELETYPEWRITER TEST SCOPE, MEASURES BIAS AND DISTORTION OF START-STOP AND SYNCHRONOUS TELEGRAPH SIGNAL ON A 3" CRT. INPUT SPEEDS APPROX. 60 WPM(5 UNIT CODE), 60,75,100 WPM 7.42 CODE, AND BAUD SPEED EQUIVELENTS TO 60.75,100 WPM (10.42 UNIT CODE). INPUT IMP. 100 OHMS FOR 60MA NEUTRAL; 300 OHMS FOR 20MA NEUTRAL AND 30MA POLAR. MEASUREMENT RANGE 0-50% MARKING, OR SPACING BIAS AND DISTORTION. TUBES: 3RP1,5651,0A2,3/12AT7,6X4,0B2,3/5963, 5726. POWER REQUIRED 115/230v 60Hz. 8x8x15 SHPG. WT: 24 LBS. USED REPARABLE $34.95 (FOUNDATION UNIT)LESS C.R. TUBE $17.95

50 TO 400 MHZ FM



SG-3/URM-70 FM SIGNAL GENERATOR, 50-400 MHz in three bands. Internal modulation @ 1000, 1600, or 20000 Hz. External: 250 to 75 KHz. FM deviation: 0-15-75-150 KHz (50-100 MHz), 0-30-150-300 KHz (100-200 MHz), and 0-60-300-600 KHz (200-400 MHz). Output: 0.1 to 100K u-volts ±25%. 50 ohms output. Requires 115 VAC 60 Hz. 15x11.5x17.3; 90 lbs sh. Unused w/book $300.00

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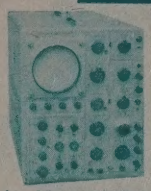
AN/URM-91 FIELD STRENGTH METER, 18-125 MHz AM-FM-CW; IM-117 meter, PP-1642 power supply, AS-802 antenna. 150 lbs; unused, $265.

MULTI-PURPOSE TEST SET

AN/TRM-1 SIGNAL GENERATOR, covers 0.19-400 Mhz AM using two RF oscillators SG-32 (0.19-30 Mhz in 5-bands) and SG-33 (30-400 Mhz). Internal modulation 0-60% @ 1 Khz or 200-6000 Hz external. Output: 2.5 to 100K u-volts in nine steps; 50 ohm impedance. Built-in voltmeter measures 0-3-30-600 VDC, 0-3-30-300 VAC, and 0-10-100-1000 MW. Also tests performance of 3 to 100 watt transmitters over freq. range when proper coupler and dummy load (not included) is used. Write for availability/price of accessories. Requires 115 VAC 60 Hz. 18x13x8; 65 lbs. Shipped UPS in two cartons. Used, reparable $135. Checked, $225. MANUAL, partial repro., $10.

TEKTRONIX SCOPES



TEKTRONIX 545A OSCILLOSCOPE w/ Type CA DUAL-TRACE plug-in; DC to 30 Mhz mainframe (24 Mhz w/CA), sweep delay, two time bases, and 4x10 cm display. Sweep: 0.1 usec to 5 sec/cm in 24 calibrated steps, variable 12 sec/cm (Time Base A); 2 usec to 1 sec/cm in 18 calibrated steps (B). Delay 2 usec to 1 s in 18 calibrated steps. Amplitude calibrator 0.2 mv to 100 V p-p in 18-steps. 5X magnifier; usable with all "letter"-series TEK plug-ins. Requires 115/230 VAC. 17x13½x24, 75 lbs. Used, reparable, $295.00; Checked, $375.00

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TEKTRONIX 585A SCOPE, similar to 545A except DC to 85 Mhz response and includes Type 82 dual-trace plug-in. Used-reparable, $365.00 Checked 585A mainframe w/reparable 82, $435.

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Other TEKTRONIX SCOPES, all used-reparable:

TYPE 511AD 5 Hz to 10 MHz, 85 lbs sh $60.00
514AD 10 MHz TV SCOPE w/markers, $75.00
RM15 DC-15 MHz single trace; rackmt $150
516 DC-15 MHz dual trace; portable, 13.5x10x21.5, 50 lbs. Checked $235.
551 DUAL BEAM to 15 MHz, used two plug-ins; w/external supply, $175.

TEKTRONIX TYPE 82 DUAL-TRACE SCOPE PLUG-IN, DC to 80 Mhz response for 580-series $175.

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TEK TYPE CA DUAL-TRACE, DC to 24 Mhz for 530, 540, and 550-series scopes, $110.00

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Other plug-ins for TEK and similar scopes. Add $10 for Tektronix manufactured units. All "used-reparable."

TYPE C Dual-trace (Hickok only),	$80.00
TYPE D High-gain, DC differential,	$25.00
TYPE G Wide-band, DC differential,	$20.00
TEK TYPE 53/54K, Fast-rise,	$35.00
TEK TYPE L Fast-rise, high gain,	$50.00
TEK TYPE O Operational amplifier,	$195.00
TEK TYPE Q Strain Gauge,	$135.00
TEK TYPE R Transistor rise time,	$125.00
TEK TYPE Z Differential comparator,	$115.00
TEK 1L30 Analyzer, 0.925-10.5 GHz,	$350.00
TEK 2B67 Time base for 560-Series,	$85.00
TEK 10A2A DC-100 MHz dual-trace f/647	$175.

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TEK 190A CONSTANT AMPLITUDE GENERATOR with 190A attenuator; sine waves at constant amplitude from 350 KHz to 50 MHz. Six bands; outputs variable over range. Also 50 KHz position variable over narrow band. Output amplitude variable 40 mv-10 V p-p. 190A attenuator attenuates 0.1-0.25-0.5-1-2.5-5-10 @ 52 ohms. 115 VAC 50-400 Hz; 9.8x13.5x11, 32 lbs. Checked $125

TEK 180 TIME-MARK GENERATOR, 14 time-marks from 1 usec to 5 seconds; sine wave freq 5-10-50 MHz. Trigger rate freq: 1-10-100 Hz and 1-10-100 KHz. 13.8x10x16.8, 37 lbs sh. Used-reparable $75.00; Checked, $100.00

HEWLETT-PACKARD SCOPES, used-reparable:

HP-122AR DC-200 KHz Dual Trace,	$145.00
HP-130C DC-500 KHz Single Trace,	$145.00
HP-175A DC-50 MHz Dual Trace,	$275.00
HP-185B Sampling Scope w/187B 2-trace,	$250
HP-851B/8551B SPECTRUM ANALYZER, 10.1 MHz-40 GHz; sensitivity to -100 db,	$1500.00
HICKOK 1805 mainframe, like TEK 545A,	$125.

VOLUME & CURRENT LEVEL

NORTHERN RADIO / MODEL 254 VOLUME and CURRENT LEVEL INDICATOR with 34-step, 2 db per step attenuator marked -40-0-+26 db. Volume meter indicates -20 to +3 db. Has input transformer 20-40000 Hz ±0.7 db 7500 ohms. Select either terminating or bridge input. Current meter shows 75-0-75 MA DC. W/tubes 0A2, 6C4, 6X4, 12AU7. Requires 115/230 Vac 60 Hz. 5.3x19x7.5, 18 lbs. Used-reparable w/book $32;

LM FREQUENCY METER

LM FREQUENCY METER, crystal calibrated unit covers 125 to 20,000 Khz in two bands. Designa accuracy better than 0.02%. Output 250 uv minimum; 600 ohm impedance. 40% AM modulation at 500 Hz. With calibration book, 1000 Khz crystal, and tubes 6A7, 76, 77, 2/991. Requires 12 V 600 ma AC, 260-475 VDC 20 ma. 8½x8x8½, 14 lbs sh wt. Gov't-reconditioned, $24.95; MANUAL, $7.50 w/set. Power input connector for meter, $3.00

SIGNAL GENERATORS

AN/URM-25 SIGNAL GENERATOR, older version of URM-25F, 10 Khz-50 Mhz AM in nine bands. Output 0-100K uv into 50 ohms. Modualtion 0-50% 400 or 1000 Hz internal. One Mhz crystal calibrator. Requires 115 VAC 50-1000 Hz. Less front cover; 11½x14x10½, 44 lbs sh. Used, reparable, $85. Checked, $130. ACCESSORIES available w/purchase of URM-25: MX-1487 impedance adptr $6. MANUAL, $10. SM-35 antenna simulator, $5. CN-223 5:1 attenuator $5. CN-224 10:1, $6.

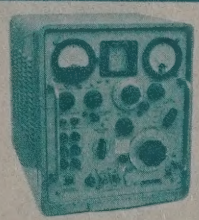
* *

3 TO 405 MHZ

AN/URM-26 SIGNAL GENERATOR, older version of URM-26B, 3-405 Mhz AM-CW in six bands; output 0.1 to 50K uv into 50 ohms. 0-50% internal modulation, 400 or 1000 Hz. Requires 115 VAC 50-1000 Hz. 11½x15½x10½, 42 lbs sh wt. Used, reparable, $90.00; MANUAL, partial reproduction, $10.00 CN-179 10:1 or MX-1289 adapter, $7.50 each.

PLUG-INS FOR HP-524 AND SIMILAR COUNTERS. USED, REP. ADD $10 FOR HP MFG.
MX-1637 10-100 MHZ, $35.
CV-594 100-220 MHZ, $25.
HP-525C 100-500 MHZ, $125.
HP-526A VIDEO AMP, $40.
MX-1636 TIME INTERVAL, $25.00
HP-526C PERIOD MULTIPLIER, $40.00
TRANSIT CASES F/525-526 PLUG-INS. STEEL (11x8x8), $5.00. FIBERGLASS (14½x9½x9), $10.00

TS-510A SIGNAL GENERATOR



TS-510A/USM-44A SIGNAL GENERATOR, 10 to 420 Mhz AM, CW, and pulsed carrier. Internal modulation 400 or 1000 Hz. External mod: 100 Hz to 20 Khz Output: 0.1 uvolt to 0.5 volt into a 50 ohm load. Large 3½" round meters indicate Percent Modulation and Output Volts-DBM. With built-in 1 Mhz and 5 Mhz crystal calibrator. Similar to Hewlett-Packard 608D. Power required: 115/230 VAC 50-1000 Hz. 13½x16½x21, 80 lbs. Used, reparable with output, ~~$245.00~~ $195.

* *

MANUAL for TS-510A, partial reproduction $10.

4 TO 405 MHZ GENERATOR

SG-117/URM-26B SIGNAL GENERATOR, 4.0 to 405.0 Mhz AM-CW-pulse in six bands. Compact unit has 0.1 to 100K u-volt output @ 50 ohms. Modulation 400 or 1000 Hz 0-50%. External pulse-mod requires positive 40 V min., 50-5000 pps; duration 2-40 u-sec and 70 ohm input impedance. Requires 115 VAC 50-1000 Hz. 11½x14 x10½, 36 lbs sh wt. Used, reparable, $175.00 Checked, $225.00; Manual, partial repro. $10.

ACCESSORIES sold only w/purchase of URM-26B:
CN-315 2:1 attenuator, 50 ohms, $6.00
CN-315 10:1 50Ω $7.50 CN-471 10:1 70Ω $8.
CU-439 impedance matcher, $7.50
BNC cords, 4 ft, $1.25; 6", $1.00

TAKE 50% OFF
PRICES IN THIS COLUMN

PRINTER MECHANISM

MATRIX PRINTER MECHANISM, precision German-made mechanism used in a U.S. assembled matrix printer which had speeds upto 180 CPS bidirectional, 0-132 or 0-158 columns. Includes single platen, ribbon drive, motors, belts, paper guides, etc. In 26"Wx8½"Hx20"D beige plastic case with cast-aluminum base. Cover lifts for easy access. Add your own control/interface electronics and print heads and make it operational. 75 lbs sh wt. #MPM/MI2, unused, $79.50

#MPM-2P/MI2 MECHANISM, same as above except with dual platen; 80 lbs sh. Unused, $130.00

MI2 DESIGN 2400 MATRIX PRINTER, 180 cps bidirectional; 0-132 or 0-158 columns, 96 character set plus elongated print feature. Units are sold "AS-IS, repairs required/no documentation." 175 lbs sh. Used, as-is, $400.00; As-is, less printhead, $300.00

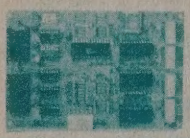
PRINTER EXERCISER for the above printer; selectable baud rates from 50 to 9600. Uses 8080A, 8255A, 8251, 8224, 8228, & 4/2708's. In transit case; 8 lbs sh. $100.00

PRINTER STAND only as shown above; 25"H, 13" x24" support for attaching desk top. 38 lbs; bus or truck shipped only. #PSD/MI2 used $25.

MECHANISM PC BOARDS

#217D-242 CARRIAGE-RIBBON MOTOR DRIVER BOARD, provided outputs for red/blk ribbon solenoid, ribbon motors, and carriage as well as voltages for Processor, Controller, and RAM PCB's. Has power transistors 6/TIP142, 3/TIP-140, 3/TIP145, 2/TIP2955, 2/LM320T-12, 2N3055, etc and 74-series IC's; -40 -5 -9 VDC req. With pin-outs, $16.95

#217D-243 PAPER FEED #1/ HEAD DRIVER PCB, provides outputs for printhead needles, voltages for carriage/ribbon motor PCB, I/O for optical clock, and output to paper feed #2. Has transistors 13/ TIP142, 2/TIP145, 2N3055, 4/MP1455P IC's, and 16/74-series IC's. Requires +40, +9, +5 VDC; 8½x8½. w/pin-out $18.



POLLED NETWORK INTERFACE, has socketed IC's 8251, 2/8212, MC14411P, MC1488, MC1489, 2/74LS243, 74LS10, 1.8432 MHz xtal, and four 8-tog DIP switches. 4.5x7; w/info. #217E-258, $24.95

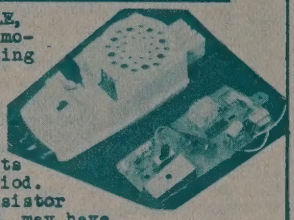
PRINTER INTERFACE PCB

#217E-238 PROGRAMMABLE INTERFACE, has 8080A microprocessor, 8251 programmable communications interface, 2/8255 programmable peripherial interface, 8224 clock generator, 8228 controller, 3/8205 decoders, MC14411 baud rate generator, 4/2111-4 256x4 RAM, 4/4804 1024x4 RAM, 74123, 74196, and 74LS04. Also four 8-place DIP switches for baud rates 75-110-134.5-150-200-300-600-1200-1800-2400-3600-4800-7200-9600 and sockets for 2/2708 EPROM. Provisions for additional 2/2708, 4/4804, 8251, and secondary transmit-receive components. Requires -9 and +5 VDC; 7½x10½. With pin-out, $65.

#217-244 CONTROLLER CPU for printer; has 8085 MPU w/5.7143 MHz xtal, socketed IC's 2/8255A, 8253, 8212 4/8205, 9/3341 FIFO, 4/2111 7400, 3/74LS00, 74LS125, 74LS161. Sockets for 6/2708 Req +5, -5, +12 VDC; $65.00

TAKE 25% OFF
PRICE IN THIS COLUMN

'SPACE TOY' MODULE



SPACE WARRIOR MODULE, electronic toy with motor speed and shooting sound effects with flashing LED's. Firing of infrared LED is detected on aggressor module causing "hit" effects and an inactive period. Requires 9 VDC transistor battery. Sold AS-IS, may have cold solder joints or other problem. 6½x2½x1¼ 2 lbs sh. #SPW-MOD, $3.95 each; 2 for $6.50

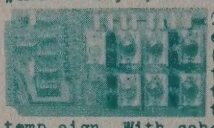
CIRCUIT BOARD only from above module, AS-IS; #SPW-PCB, $2.50 each or 3 for $6.00

WHISTLE/SOUND ACTIVATED

WHISTLE/SOUND ACTIVATED SWITCH, alternates on-off latching operation. Can be used to control lights, TV commercials, robots, etc. Ten transistors; 2½x3-1/8 circuit board with microphone and schematic. #AST-968SS, $2.50 each.

TIME-TEMP SIGN PCB'S

SCR/TRIAC CONTROLLER BOARD with seven each 400 V 4 A SCR's and 200 V 6 A triacs. SCR's trigger the triac gates with a 50 m-sec 16 V pulse that holds all triggered triacs "on" until 24 VDC to SCR's is reset. Originally p/o time-temp sign. 6x6x2½, 1 lb. #ASI-CMC27, w/schematic $5.50



TRIAC CONTROLLER BOARD w/ eight RCA 200 V 6 A triacs (TO-66), isolation/trigger transformer, shift register, and gates which control each triac. P/o time-temp sign. With schematic and 22-pin edge connector. 4½x8x2½, 2 lbs. #ASI-CCMP107 $5.95

50K JOYSTICK

JOYSTICK with four 50K ohm potentiometers having fixed center-taps; smooth ball action. Brushed aluminum handle; 2½x2½x2½. #JS-50K-LIB NEW $5.95

CONTROL ASSEMBLIES ON 9x4 HEATSINK. USED, EXCELLENT YIELD ON SEMICONDUCTORS. SHPG WT. 4 LBS EA. SIMILIAR TO PICTURE ORDER BY NUMBER

TRANSISTOR CONTROL ASSEMBLY WITH DIODES.

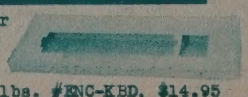
8/TO-3 60V (SIMILIAR TO 2N3055) AND 8/TO-66 (SIMILIAR TO 2N3054) 60V TRANSISTORS, 8/0.4 OHM 5W AND 8/3OHM 3W RESISTORS, 8/DO-4 DIODES WITH INSULATED MOUNTING HARDWARE. #7729 $4.00

TRANSISTOR CONTROL ASSEMBLY, CONTAINS 8/TO-3 AND 8/TO-66 AND EMITTER RESISTORS AS ABOVE. SMALL DIODES AND RESISTORS #0425 $3.50

JOYSTICK

HIGH-QUALITY JOYSTICK with removable center return springs. Uses two Bourn 5K ohm pots with trim adjustments for position centering. 1-3/8"H stem above panel surface; 1½" depth required behind. O/a approx 2½ x2½, 1 lb. #JS-14227 NEW $7.

KEYBOARD ENCLOSURE



KEYBOARD ENCLOSURE for 75-key format including separate numeric pad; unpainted, unassembled. 2½x20x7½, 4 lbs. #ENC-KBD, $14.95

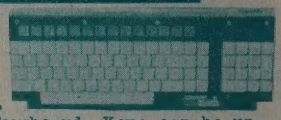
TAKE 25% OFF
PRICES IN THIS COLUMN

PAPER TAPE READER

TALLY PAPER TAPE READER/ TRANSMITTER, consists of oscillator, receiver, logic, and power supply cards. Uses standard one inch paper tape; selectable 5 or 8 channels, A or U mode. Output can be set to 0,-3,-6,-9,-12 dbm. No specific data but believe this to be 300 baud Requires 115 VAC 60 Hz. Size: 9-5/8x12x4½, 11 lbs sh. #PTR-760-328, used, $14.95

#760-128 TALLY PAPER TAPE READER, similar to above; no selectable output, 100 baud. $8.95

73-KEY KEYBOARD



CHERRY 73-KEY KEYBOARD #B65-59AB or equal. Standard typewriter keys, 0-9 key pad, Enter, Period, Comma. No electronics on keyboard. Keys can be unsoldered for replacement. Boards are little used in good condition. 15½x6½x1½, 3 lbs sh. #COM-B65-59AB, complete as pictured, $22.00 #SPA-B65-59AB, as above but no space bar $12. #MIS-B65-59AB, " " " " " " and missing 4 to 6 key switches, $9.00 #PAR-B65-59AB, missing at least 10 key switches; suitable for parts only, $6 2/$10

TV GAME SWITCHES

TV GAME SWITCH as used on many TV video games; 300 ohms, RCA jack, 4" twin lead. 2½x 1½x1, 1 lb. #TW-TVGS, $1.95

SHIELDED TV GAME SWITCH, "Game" RCA jack input is shielded from TV inputs; 300 ohms. 2½x3x1 box also has two screw terminals. Other uses possible. #JA-TVGS. $2.95

CARTRIVISION COMPONENTS

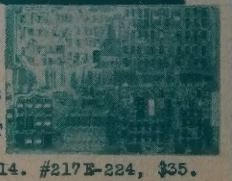
FISH TANK

FISHTANK OF ELECTRONIC COMPONENTS, P/O VIDEO TAPE SYSTEM. CONSISTS OF DEMODULATOR, SERVO-AMP, DROPOUT COMPENSATOR, PER/POST PROCESSOR DC POWER SUPPLY (115 V 60 HZ; OUTPUT -12/-12 1AMP REG, 5 VDC 1 AMP UNREG. MANY PARTS, IC'S FET, TRANSISTORS, TRANSFORMER VARIABLE RESISTORS, CAPACITOR MORE! SIZE 14x12x6½ WT 15 $14.95

2 FOR $25.

CORTRON EUROPEAN KEYBOARD, compact size has standard qwerty letters plus "umlaut Ä, Ö, Ü"; numerical keys assigned to "U-I-O-J-K-L-M-,-." locations. Also function keys Numeric , Alpha, Repeat, Reset, LCA, Delete/-Skip, Disp/Auto Off, Field Rel, Char, Field, Rec, Bypass/ Prog, Cmnd/Rel, Insert/Dup, V Cor/Ax Dup, Hex, and other symbols. Grey alpha, black numeric, blue control keys. IC's 1455, DM933, CA3086, 7493, 74145, 74LS00-02-04-08-11-74, and 80-551276 controller. No further info. 6x12x1½, 4 lbs. #55-500501/2683 NEW $17.95

PRINTER LOGIC BOARD



PRINTER LOGIC PC BOARD with over 100 each 74-series IC's, sockets, and tantalum capacitors --plus C8008 CPU, 8/2102 RAM, 10/1702 PROM, six 3341 FIFO, AY5-1013 UART etc. Part of matrix printer; w/pin-out. 20½x14. #217E-224, $35.

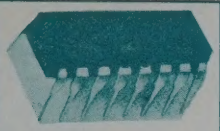
TAKE 25% OFF
KEYBOARD PRICES

TAKE 30% OFF
TOTAL PRICE WHEN YOU BUY ANY 4 CIRCUIT BOARDS BELOW

ON SALE!

CPU'S

RAM'S



P8085 CPU,	$3.95	8080A CPU,	$2.25
8228 control	$2.25	8224 clk gen.,	$2.00
2111 RAM,	$1.00	4804A RAM,	$2.50
3341 FIFO,	$2.25	FRI-502E02 FIFO,	$3.
RC4558 2-op-amp	4/$1	MC1489 4-line	$2/$1.
4060BE Cmos,	4/$1	4069 Cmos,	4/$1.00
LM703 RF-IF amp	4/$1	CL903L CdSe foto	4/$1
FPA103 light reflective transducer, $.75			

DIODE w/BUILT-IN HEATSINK, approx 100 V 50 amp; 2½ x2" dia plus pig-tail. Removed f/ equipment. #KS19404, $3.50

GENERAL INSTRUMENT FULL-WAVE RECTIFIER BRIDGES, new:
#KBPC25-02, 25 amp 200 V, $2.25
#KBPC6005, 6 amp 50 V, $1.25

LM-340T12 with heatsink $1.25
LM317T 2-37 V reg $1.50 LM318N op-amp $1.50

MPSA14 NPN darl	5/$1.	2N3055 NPN 10 A,	75¢
2N2222A NPN	6/$2.	2N4126 PNP lo-no	6/$1
2N6346 unijunct	75¢	TIP120 NPN darl.	75¢
TIP140 NPN darl.	95¢	TIP142 NPN darl.	$1.00
TIP145 PNP darl	$1.00	7808 8 v reg.,	3/$1.

1 AMP 50 PIV	20/$1.	35 AMP 50 PIV	$1.80
400 PIV	15/$1.	100 "	2.10
1000 PIV	10/$1.	400 "	3.25
5 AMP 800 PIV,	$1.75	1N3890 100V 12A	4/$3.
MR-series, 6 AMP		ZENERS, 1 W: 3.3 3.9	
MR750 50 PIV	85¢	4.1 10.2 V	4/$1.
		11.6 12.0 V	3/$1.
MR752 200 "	$1.10	1N2974B, 10 W 10 V	
MR754 400 "	1.25	5% stud mt.	$1.25

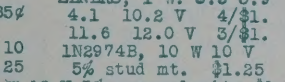
1N1357RA ZENER, 10 W 18 V 5% rev-polarity $1. VARO VTA200/S 200 V 25 amp bridge rectifier, c.t. cathode, stud mount, $1.00 ea. 4/$3. #50-100A RECTIFIER, 50 V 100 A conservative; no hardware or pigtail. House #; 2x1". $2. #30084-A (-AR=reverse) DIODE, 300 V 84 A, $5.

LED'S RED, T-1¾ size 8/$1. GREEN 6/$1. DARK RED, HP5082-4697, 6/$1.00 7-SEGMENT NUMERIC DISPLAY, common anode, lefthand decimal HP5082-7730 $1. SLA-2 DISPLAY; .33", - or -1 and 1, 2/$1.00

IC SOCKETS 8-pin low-profile 5/$1. 14-pin wire wrap 6/$2. 14-pin standard 5/$1.

16-pin stnd.	4/$1.	16-pin l.p.	5/$1.
18-pin l.p.	4/$1.	20-pin l.p. 35¢	3/$1.
22-pin l.p.	3/$1.	24-pin l.p. 40¢	3/$1.
24-pin stnd.	50¢	28-pin l.p. 45¢	5/$2.
28-pin stnd.	60¢	40-pin stnd.	$1.00

JUMPERS



PCB jumpers, unused.

43-16P1; one 16-pin, 12"	" ,	1.50	3/$3.
44-16P2; two 16-pin, 48"	" ,	~~3.00~~	2.40
43-24P1; one 24-pin, 12"	" ,	~~2.00~~	1.50
60-24P2; two 24-pin, 2½"	" ,	~~2.50~~	1.75
44-40P2; two 40-pin, 23"	" ,	~~4.25~~	3.25
9-14P1; one 14-p, 23" loose leads, $1.75			

PC BOARD JUMPERS with IC plug and DP25P, 16": 16-pin, #16/DP25P $4. 24-pin, #24/DP25P, $5.

TEXAS INSTRUMENTS SEMICONDUCTOR MEMORY DATA BOOK (1975), 272 pages, $1.00

COPPERCLAD PCB

Single-side copperclad etching board for making printed circuits. Phenolic (PH) or fiberglass (FIB) backed as noted. Some drilled (d).

PH# Size Price Size Price Size Price
4x18 $.75 11x16(d) $2. 16x18 $2.75
FIB# 12x25 (d) $3.50

* * * * * * * * * * * * * * * * * * * *

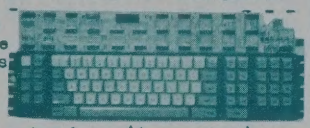
VERY THIN COPPERCLAD, less than half thickness of above; easily flexed to make cylinders, RF shield, or laminates; fiberglass core. Single-sided (SS) or double-sided (DS).

	Size	Th	Price	Size	Th	Price
#VTC-SS	14x18	.019"	$1.75	18x24	.015"	$2.25
#VTC-DS				22x28	.006"	2.50

BUY 5 or more one type, take 20% off price.

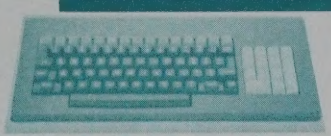
EDITOR KEYBOARD

WORD PROCESSOR KEYBOARD, 93-keys including qwerty format and function keys "Help, Move Text, Emph Add, Search, Save, Indent Set, Set Tabs, Setup, Cancel, Enter, Options, Quick List, Command, Msg Get, Back Erase, Skip Back, Prev Page, Next Page, Recall Page, Store Page, Skip Forward," etc. IC's 74LS14, 22-950-3B, 22-908-03, P8021H; 3.57945 Mhz crystal, Almond color keys; Keytronic mfg. 5¾x19x1½, 5 lbs. #A65-02181/3767 NEW $29.50

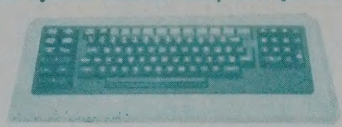


CORTRON KEYBOARD with ferrite core key switches. Has standard 54-key typewriter format, 12-key numeric pad, and 17 entry keys (4 unmarked). Buttercotch-brown and beige keys; looks like serial input. With IC's 2/7403, 7405, 74155, 4/74145, 74S287, 3/74LS00, LS02, 2/LS04, 2/LS10, LS08, LS11, LS14, LS20, 4/LS74, 2/LS93, CA3086, MC833P, and 80-551276 controller. Requires +5 and -12 VDC; No further info. 6½x18¼, 4 lbs. #55-500168 NEW, $21.95

SPERRY KEYBOARDS



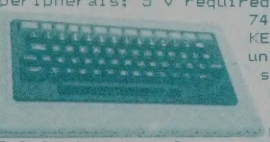
84-KEY MICRO-SWITCH KEY-BOARD, standard qwerty format with 13-key numeric keypad; 15 red control keys. IC's SW-10667 MC836P, SW-20339K controller. Grey keys and case; 7¼x17½x2¾ 4 lb. #84-SD12-14 used $27.95 #8120302, same as #84-SD12-14 except with Japanese KANA symbol characters; NEW $39.95



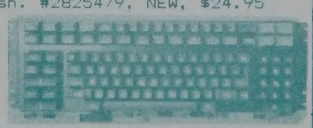
94-KEY MICRO-SWITCH KEY-BOARD with case, standard qwerty keys plus numeric pad and control keys Display ERASE to EOF, EOD ERASE EOL, In Disp DELETE in Line, In Disp INSERT in Line, Cursor to Home, SOE, Insert LINE Delete, Line Dup, Break, Ctl Page Unlock Here Is, Xmit, and other functions. Has 3' cord terminated in DEC-93 connector, IC's 74H04, 74154, SD23593, crystal 5.904 Mhz Black and blue keys in beige plastic case. 8½x21x3, 8 lbs. #2889906, unused, $34.95

8048 CPU KEYBOARDS

MICROPROCESSOR CONTROLLED KEYBOARDS, features P8048-controller, an 8-bit CPU, ROM, RAM, I/O package with 1x8 ROM, 64x8 RAM, and 27 I/O lines. Compatiable with 8000 Series peripherals; 5 V required. With 8048 info.



74-KEY MICROSWITCH KEYBOARD, compact unit with case and standard querty format plus control functions Erase Display-Home, In Disp Delete in Line, Insert, EOD Erase -EOL, Char Erase-Xfer, Ctl Page-Print, Unlock Msg-Wait, Cursor direction, etc. IC's 74H04, 7442, 8048 & 5.904 MHz xtal 3' cord w/DEC9S. 8.5x15x3, 5 lbs sh. #2825479, NEW, $24.95



CORTRON 110-KEY MULTI-FUNCTION KEYBOARD with querty format, 13-key numeric pad, cursor control keys, and 31 function keys: "Delete, Insert, Erase, Xmit, Xfer, Print, Kboard Unlock, Control Page, Tab Set, FCC Clear/Search FCC Renenable/Status, FCC Generate/Msg Wait, Hang Up," and others. IC's CD4051, LM393, 74LS00, 74265, CD4028, MC14028, 8048; 6.00 MHz crystal. One or two keys maybe "reject." 7.3x19x1.5, 5 lbs. #2893916, $19.95

#113SD30/3137, as above but with KANA character function, 8748 EPROM CPU; Microswitch mfg; grey, black, blue, red keys. $28.95

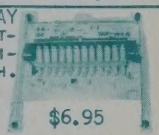
POWER SUPPLY REGULATOR BOARD, 2/3401 quad op-amps, 5/741 op-amps, 3/2N5958, 8/2N2222, 4/2N2906, 2N3054, etc. 2 lbs. #PSR32-A1, $2.50

RECTIFIER SCR BOARD with 3/GE122F 50 V 8 amp SCR; 13/1N5402 200 V 3 A; 6/0.39 ohm 5 W and 5 ohm 25 W resistors, etc. #PSR32-A2, $2.25

12-DIGIT FLUORESCENT DISPLAY using DG-10A 1-5/16"H tubes with 5/16"H display; 21 transistors, two IC's, capacitors, resistors, etc. 22-contacts on 5½x3-3/8 board. #QP-3304 $3.95

FAIRCHILD IC'S: 4/9002, 2/9015, 2/9016, 74180 3/9024, 2/9602, 9/2N2222 plus resistors, diodes, etc. 2 lbs. sh. #C200504G1, $1.95

TALLY OSCILLATOR, ferrite coils 81.9-72.5-44.7-42.9-35.6-34.9-30.2 mHy, 39/50 V capacitors .001 to .47 mf, 9/2N3565, 2N3643. $2.95



TWELVE DIGIT FLUORESCENT DISPLAY #POS2, 3/8" DIGITS WITH CHARACTERS 0 THRU 9, -, -, ', AND DECIMAL POINT. TUBES ABOUT 2" HIGH. ALSO 2/M5812 COUNTER IC's, 27 TRANSISTORS, AND OTHER PARTS. 9x8½x2½, SHPG. WT: 4 LBS. $6.95

DIODE MATRIX 34 X 20 CONTAINS 90 DIODES IN4004 OR EQUAL. 6x11 #005330 $3.95

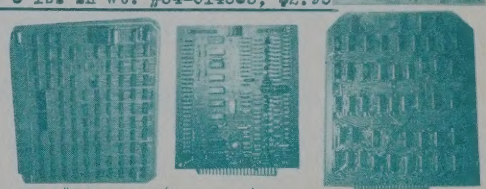
DIODE MATRIX 25 X 7, 23 TRANSISTORS, DIODES WITH 22 PIN SOCKET. 7x4½, #2010200

CORE MEMORY ARRAY 2 SECTIONS EACH 52 X 52 BOARD SIZE 13x13x1¼ #2162301 5 LB $3.95

SMALL CORE MEMORY ARRAY, 2 SECTIONS APPROX 65x15 EACH. 4 REED RELAYS 2/3PST, 2/5PST 7x4½x½ #2006000 $2.95

ENDERSOR DRIVER 4/DM8851 DUAL RETRIGGERABLE MVBR, 7474, 9109 HIGH VOLTAGE HEX INVERTER, 2/7400, 7420, 7406, 18 BYPASS CAPACITORS, TO-3 TRANSISTOR ETC 1 LB #484-0001801 $1.50

INDUCTOR BOARD, has 3/200 uH and 2/1200 uH inductors ¾"H x 1-3/8" dia; also 3/4000 mf 20V 3/3000 mf 25 V axial capacitor 2N5039, 2N2219, LM339, 1741. 3 lbs sh wt. #54-014535, $2.95



CMOS#84293: 3/4001, 2/4002, 5/4009, 2/4010 4/4011, 2/4012, 7/4013, 4021, 2/4022, 7/4023 2/4025, 2513 A 64x8x5 CHARACTER GENERATOR 7417. 9x7½, SH WT 2LBS #84293 $7.50

CMOS-K1; 6/4008, 4/4009, 4/4011, 2/4012 7/4013, 9/4016, 5/4022, 2/4023, 4024,5/4040 9x7½, SH. WT. 2 LBS #CMOS84292 $6.95

CMOS #14007; 4/4001, 2/4011, 2/4013, 4042, 4558 DUAL OP-AMP, 23 TRANSISTORS, MANY RESISTORS, CAPACITORS. 1 LB #14007 $2.95

* *

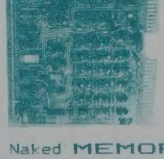
CONTROL OSCILLATOR f/DC-DC converter; two 18 VDC sens-relays w/SPDT, 3/SPST N.O. contacts, 2-xformers 10-500 KHz 3/1:1:1. #OSC-DCDC $2.

REED RELAY

REED RELAY BOARDS LISTED BELOW CONTAIN 12VDC REED RELAYS AND ASSOCIATED COMPONENTS. ORDER BY BOARD NUMBER. SH WT. 3 LBS.

#5336 1/DPST, 4/5PST, 2/4PST, mercury wetted relay SPDT, 26 diodes. $3.95

#5361 3/DPST, 4/SPST, mercury wetted SPDT, 6 transistors, 24 diodes, and misc capacitors and resistors. $3.95



MICROPROCESSOR CIRCUIT BOARD, has C4004 P-channel microprocessor, 4/P4001 256x8-bit PROM, 2/P4002-1 320-bit RAM and 4-bit output port, 3/4003 10-bit serial in/parallel-serial out shift register, plus 53 transistors. #IC-07, $3.50

Naked MEMORY PC BOARDS:
#217D-101 EPROM BOARD for eight 1702A EPROM, 4/7404,2/3404; with edge connector, $2.25
#217D-136 2K RAM BOARD for sixteeen 2102 RAM, 4/7404, 7420; with edge connector, $2.50

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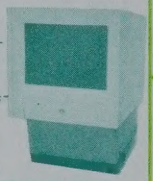
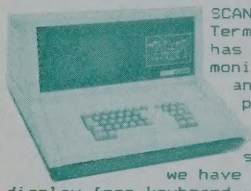
VIDEO DISPLAYS

HITACHI 12" black and white composite monitor Model CD-12 open frame without case or bezel Suitable for use as computer monitor or video camera monitor. Requires external power 12 VDC 1 amp. 24 lbs sh. Unused w/schematic, $29.95; 2/$50.00



MICROFORM DATA 9" MONITOR comprised of Motorola XM227-17 composite black and white monitor suitable for use with video camera or as a computer monitor. Hidden control for contrast and brightness; also On/Off switch, 75 ohm or high impedance input (BNC connector), and ivory case with green base. Requires 115/230 VAC 60 Hz. 16.5x9.5x10.5, 22 lbs. #MD9-MON, used-good condition $45.00

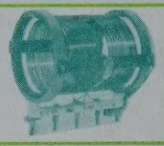


SCAN DATA/SCAN PLEX II Terminal made by Pertec; has built-in 9" green monitor, 55-key keyboard, and +5, +12, -12 V power supply. Originally part of some time-share system. Only single BNC connection; we have been unable to access display from keyboard--no info. Power supply has 115/230 VAC transformer with outputs 15.4 and 33.6 VCT; also 170 7400-series IC's and 5/2102's. 60 lbs sh. #SCD-II used $29.95

JOHNSON DESK MIC

push-to-talk; wire it for 600 or 50K ohm impedance. Cocoa-brown metal cast with gold trim mouthpiece. W/coil cord for you to install. 9.3"H, 3.8x6 base; 3 lbs. #JHSN-DM NEW $12.95

C-454 COIL



1.5-3.0 MHz coil for 400 W BC-610 xmitter; 5.5"Lx4.5" dia, 5-banana jack connections #C454-WVL with variometer, unused, $6.00

CERAMIC RF SWITCH

6-POSITION CERAMIC TAP SWITCH for 100 W WW-2 transmitter; 2.3x2.3x1.8, 1 lb sh. #3Z9605 unused, $3.95 10/$32 100/$265.

RS-232 CABLE,

5' 25-conductor with male DB-25P & female DB25S; 3#. #CB-RS232-5, used, $10.00

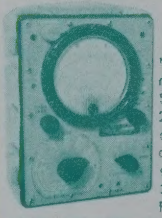
AIR COMPRESSOR

AIR COMPRESSOR rated 30 PSIG, 0.6 CFM max; suitable for air-brush work or light duty inflating. Diaphram-type unit uses 7 mf 330 VAC capacitor and operates from 115 VAC 60 Hz. Inlet 5/8" NPT; outlet 1/2". 8.3x4.6" dia, 15 lbs sh. #127P321, excellent, $22.95

HEATSINKS - HEATSINKS

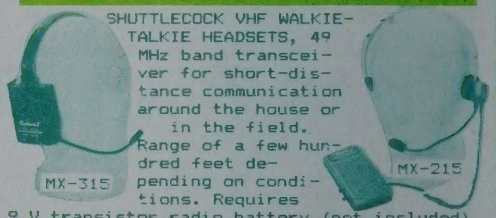
ALUMINUM HEATSINKS, all bare; drilled for TO-3 transistors and/or diodes:
#12T1372, for 12/TO-3 and 6 small diodes; 12.8 x6.8x2.4. Vertical mount; 7 lbs sh, $9.95
#6T763, 6/TO-3; 6.8x6.3x2.4, vert-mt 4#, $5.
#6T862F for 6/TO-3 and 3/0.25" dia diodes; 8x5.8x1.6, flat bottom, 3 lbs sh, $3.50
#2D953, two 3/8" diode; 9x4.8x2.6, 2#, $3.50
#BP14121 black plate, 14x11.5x3/4, 4#, $4.50
#2T1041F, 2/TO-3 fl-bot; 10.3x4.5x1.3, $3.75
#6T1041F, 6/TO-3 fl-bot; 10.4x4.5x1.3, $3.95
#1D1041F 1/diode fl-bot; 10.3x4.5x1.3, $3.50
#10D1041 10/small diodes; 10.4x4.5x1.3 $3.00
#2D442F f/two 0.5" diodes; 4.4x4.4x1.5, $1.75
#7281352 for 2/TO-36; 4.8x3x1.3, $1.85

MULTIMETER



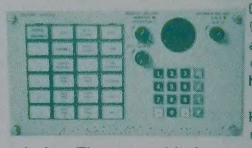
ME-297/USM-223 FET MULTIMETER measures volts AC and DC to 5000 V in sequential ranges 2.5-10-50 to 5 KV, AC/DC 1000 ohm/v or DC 20K ohm/v. Also DC current to 10 amps in full scale ranges 0.25-2.5-10-50-100-500 MA DC and 2.5-10 amps. Resistance scales x1K-10K-100K-1M-10M ohms. Includes rugged plastic case, 4.5" dia FS=50 ua meter, red-black test leads and front cover. Requires 6-PXB1 1.3 V and 1-"C" batteries (not included). 6x 7.4x8.8, 7 lbs sh. Used-reparable, $34.95; Checked $54.95; Manual partial repro, $8.50

WALKIE-TALKIE HEADSETS



SHUTTLECOCK VHF WALKIE-TALKIE HEADSETS, 49 MHz band transceiver for short-distance communication around the house or in the field. Range of a few hundred feet depending on conditions. Requires 9 V transistor radio battery (not included) These units are factory returns and may be intermittent or open solder joints, etc. Sold "AS-IS" with schematic. Three frequencies available--no choice. We will ship matched frequency sets. Two models:
#MX215 Rx/Tx pack clips to your belt plus lightweight headset & boom mic, $12.50
#MX-315 Rx/Tx is contained in headset $12.95

NASA CONTROL PANELS



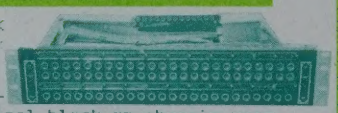
GROUND/GROUND INTER-COMMUNICATIONS PANEL appears to be high quality NASA surplus; has twenty-four 0.8"x 1.2" Microswitch AML Hall-effect switches w/28 V lamps, 6-16 V sink. These switches are bounce-free type for use in digital circuits. Also has mechanical matrix 16-key keypad, 1.75" dia speaker, three Bourns 80-Series pots (25K/25K, 10K/10K, 25K/500) w/knobs; 6.3x11.5, 4 lbs sh. #GG-COM-PL, removed, $12.95

GROUND/AIR/GROUND CONTROL PANEL, has Microswitch AML Hall-effect switches: four 0.8" sq and four 0.8x1.2" single circuit, eight 0.8x1.2" dual circuit switches, plus four red and four red/green-dual LED's. Display/driver board has sixteen HP-5082-7740 7-seg 0.3" socketed displays, 3/ULN2004, 2/74C14, 14511, 14514 IC's. Button inscriptions can be re-worked. 4.3x11.5, 2 lbs sh. #GAG-PL, removed, $9.95

TEMPERATURE CONTROLLER

LFE 238 TEMPERATURE CONTROLLER designed for temperature control in industrial furnaces, enviornmental chambers ovens, molding machines, etc where precise control of temperature is necessary. Model 238 is solid-state, has digital set point, and +/- 50 degree deviation indicator; also solid state relay output. Features include Rate Time adjustment 0.05 to 3 minutes, Cycle Time adjust 6 to 60 sec, Proportional Band adjust 1 to 50%, Reset adjust 0.1 to 16 minutes, and Set Point Range 0-800 F. Power input: 120v 50/60hz. Requires thermocouple sensors which we cannot supply. 3.8x3.8x6.5"D, 3 lbs. Unused w/book $49.95

PHONE JACK STRIPS



TELEPHONE JACK STRIP, 24 jack pairs plus a monitor jack/pair; adjustable 5x26 terminal block on chassis rear. 3.5x19x15, 15 lbs. #J-2098, used, $25.95
#J-2097 JACK STRIP, 24 pairs, 3x26 terminal block; 2.8x19x15, 12 lbs. Used, $18.95

LATE ARRIVALS!!!

HEWLETT-PACKARD 205AG AUDIO GENERATOR 20 Hz-20 KHz, meters and attenuators for input-output tests. 65 lbs. Used-reparable, $125.
HP-614A UHF SIGNAL GENERATOR, 800-2100 MHz CW-FM-Pulsed directly calibrated; 100K uv max output. 70 lbs sh. Used-reparable $250.